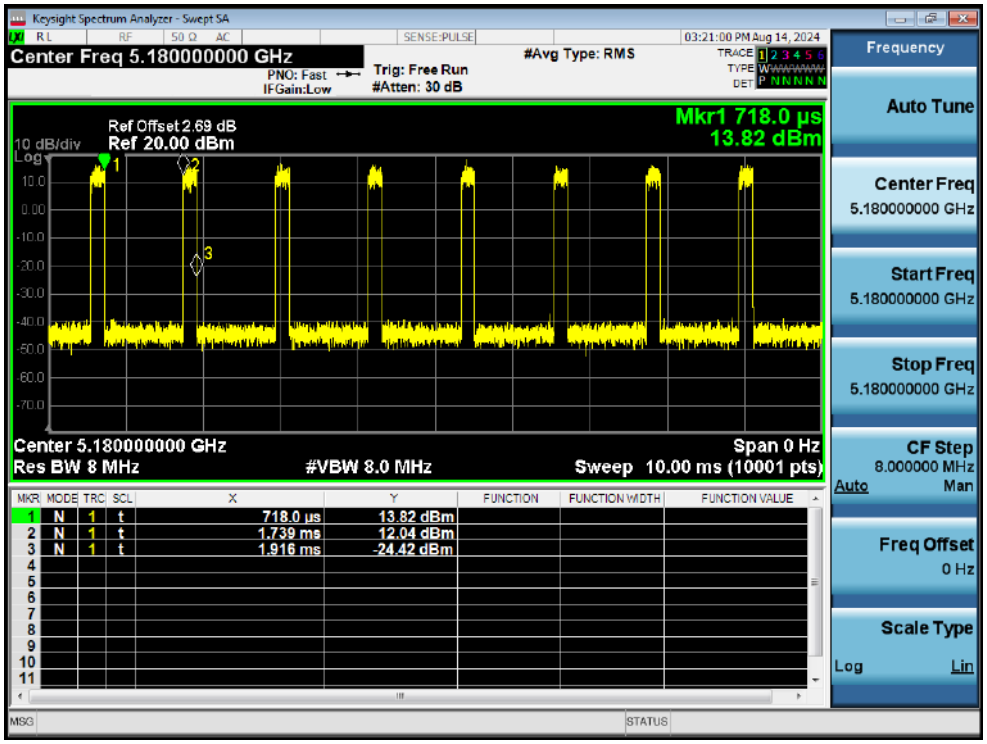
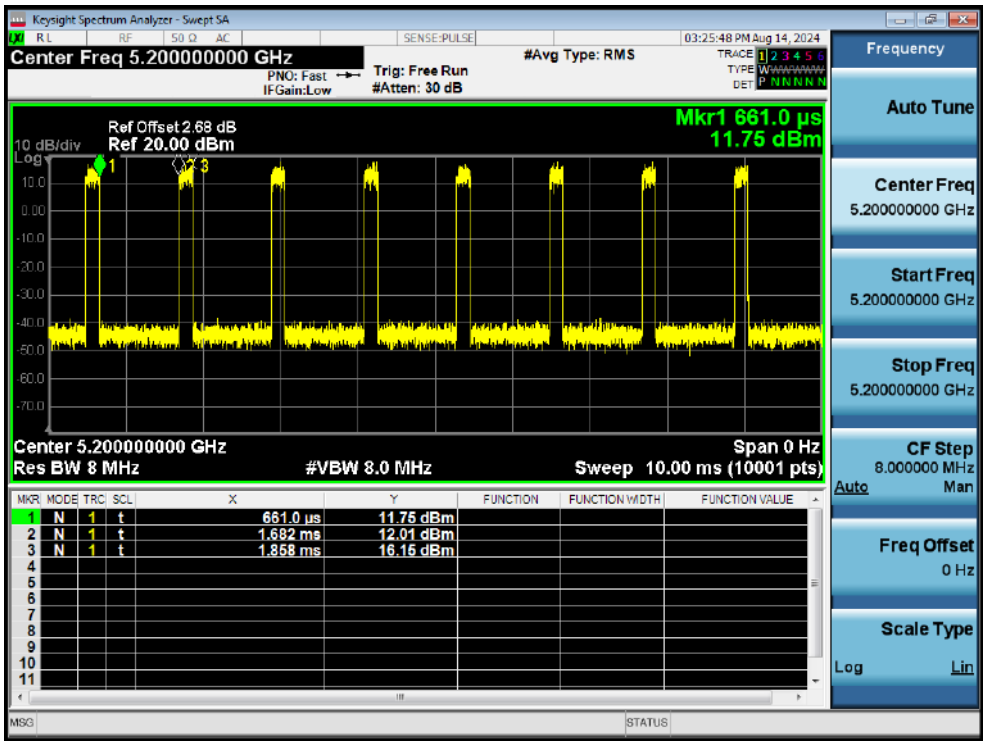
Test Data Appendix of Test Report

1. Duty Cycle

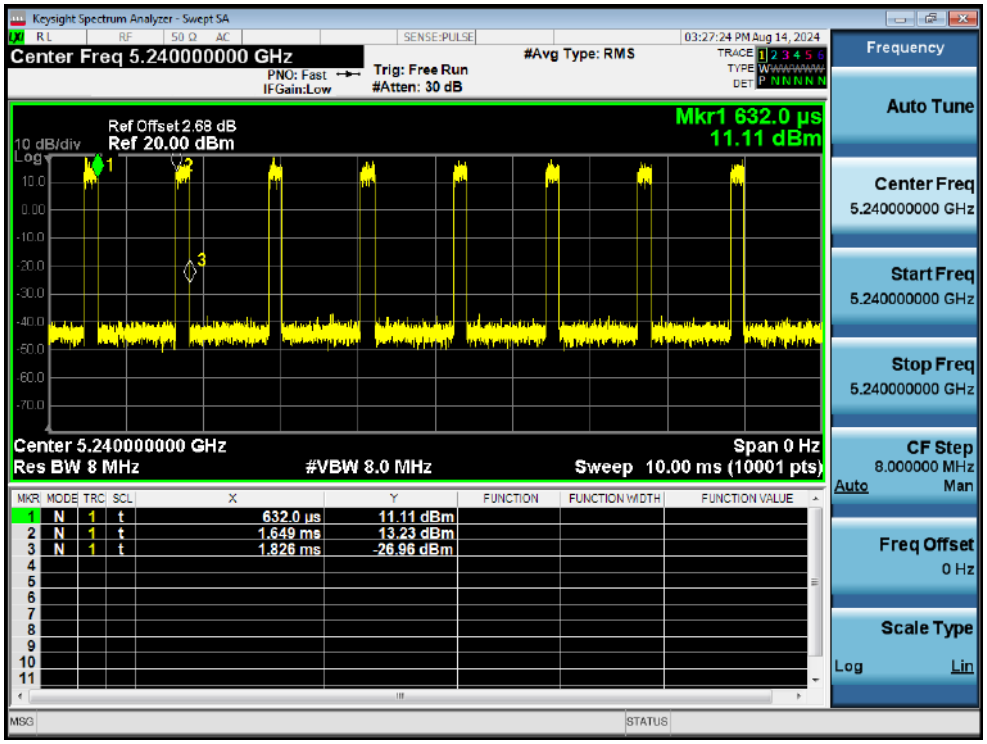
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	14.77	8.31	5.65
NVNT	a	5200	Ant1	14.7	8.33	5.68
NVNT	a	5240	Ant1	14.82	8.29	5.65
NVNT	n20	5180	Ant1	34.76	4.59	1.84
NVNT	n20	5200	Ant1	34.91	4.57	1.83
NVNT	n20	5240	Ant1	34.76	4.59	1.84
NVNT	n40	5190	Ant1	34.07	4.68	1.9
NVNT	n40	5230	Ant1	34.09	4.67	1.9
NVNT	ac20	5180	Ant1	31.25	5.05	2.16
NVNT	ac20	5200	Ant1	31.31	5.04	2.15
NVNT	ac20	5240	Ant1	31.27	5.05	2.15
NVNT	ac40	5190	Ant1	28.69	5.42	2.44
NVNT	ac40	5230	Ant1	28.72	5.42	2.44
NVNT	ac80	5210	Ant1	27.18	5.66	2.62
NVNT	ax20	5180	Ant1	22.09	6.56	3.47
NVNT	ax20	5200	Ant1	22.09	6.56	3.46
NVNT	ax20	5240	Ant1	22.09	6.56	3.46
NVNT	ax40	5190	Ant1	22.09	6.56	3.46
NVNT	ax40	5230	Ant1	22.04	6.57	3.47
NVNT	ax80	5210	Ant1	21.31	6.71	3.62



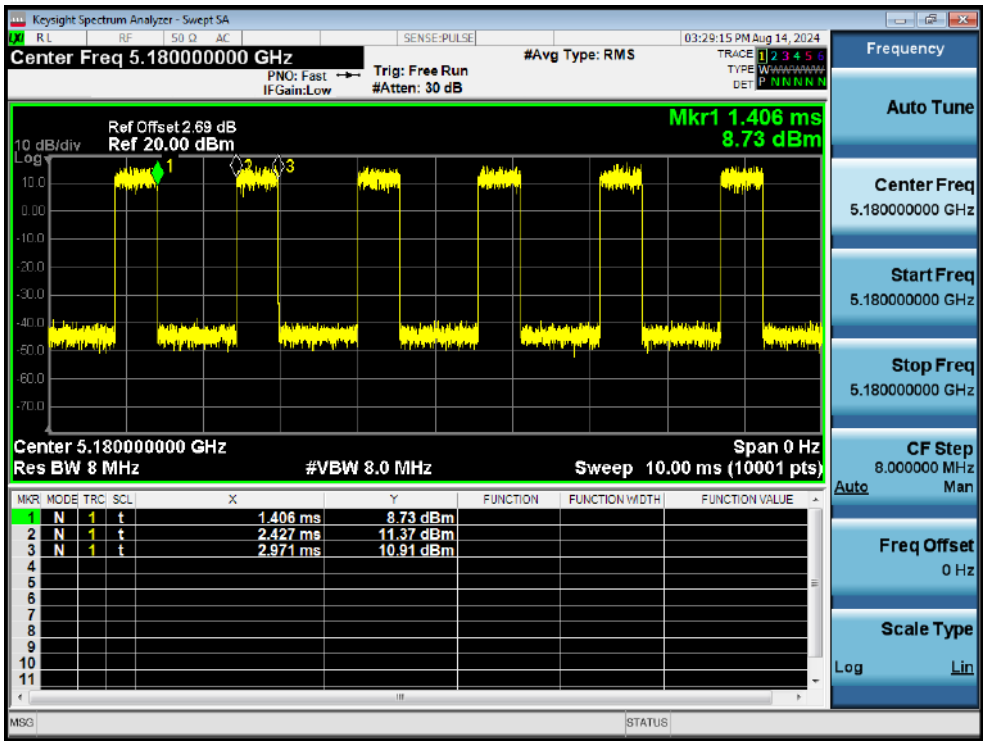
Duty Cycle NVNT a 5180MHz Ant1



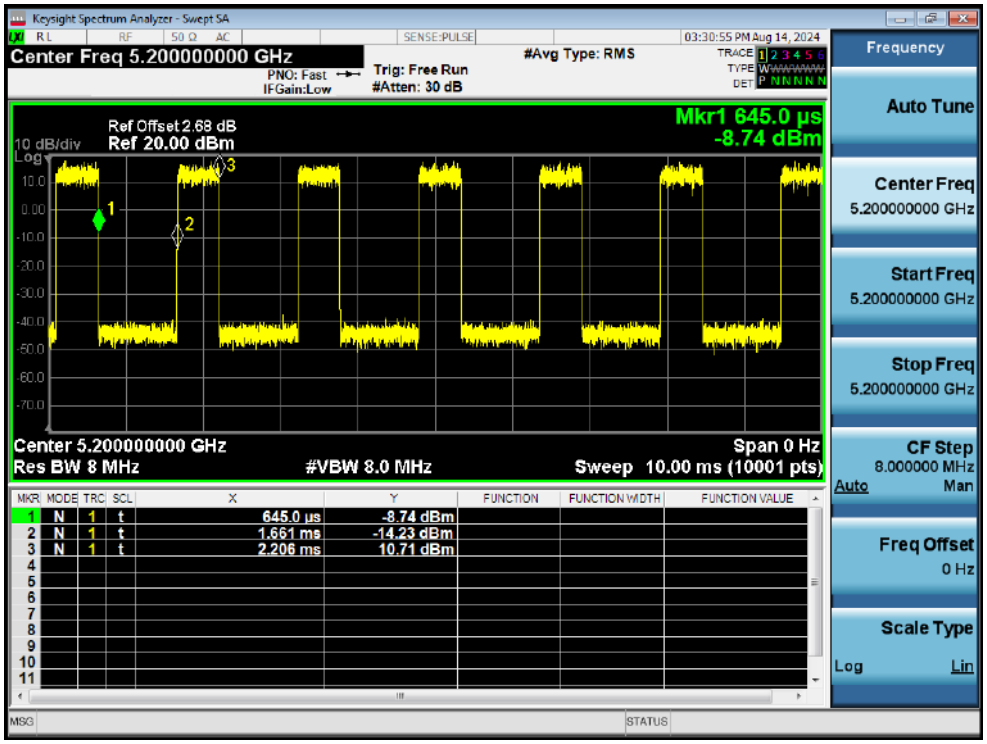
Duty Cycle NVNT a 5200MHz Ant1



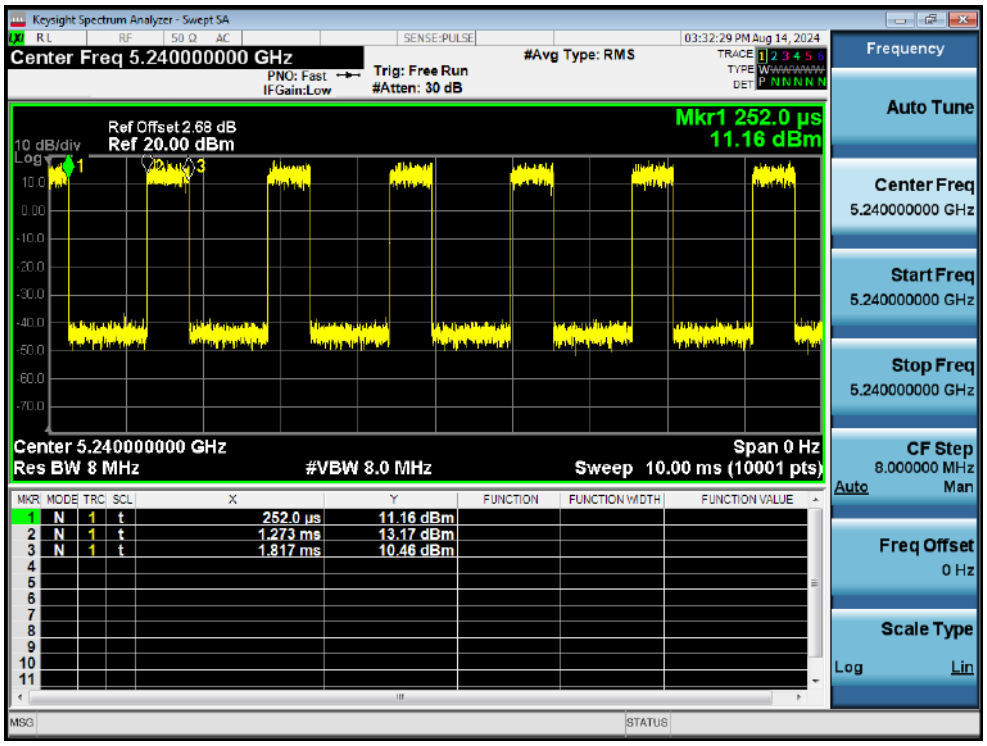
Duty Cycle NVNT a 5240MHz Ant1



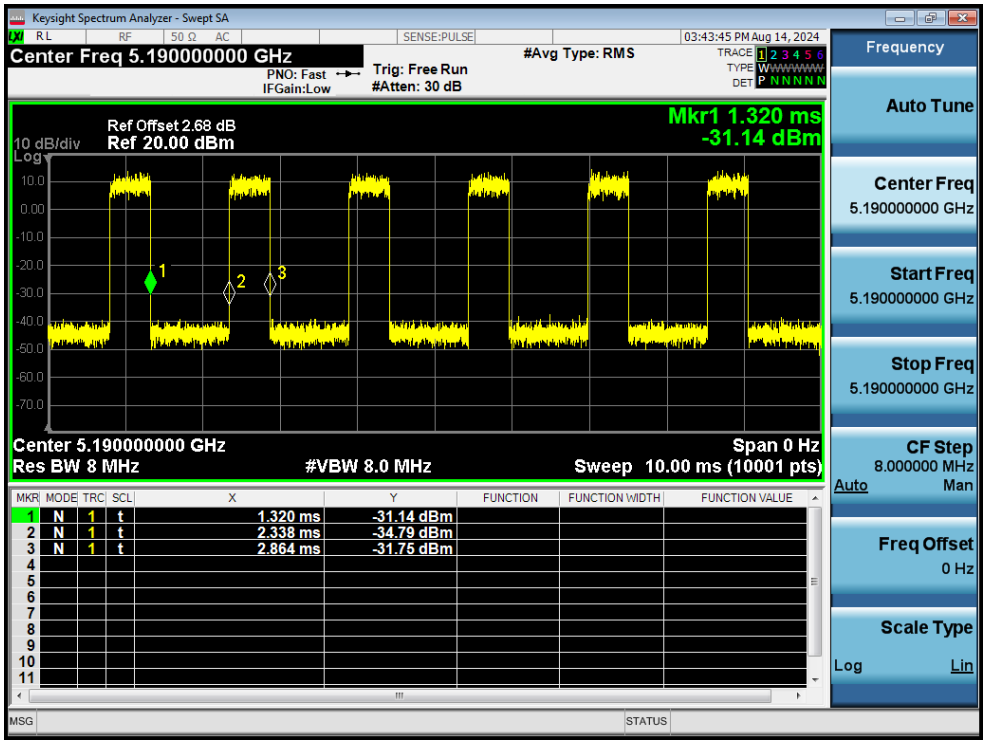
Duty Cycle NVNT n20 5180MHz Ant1



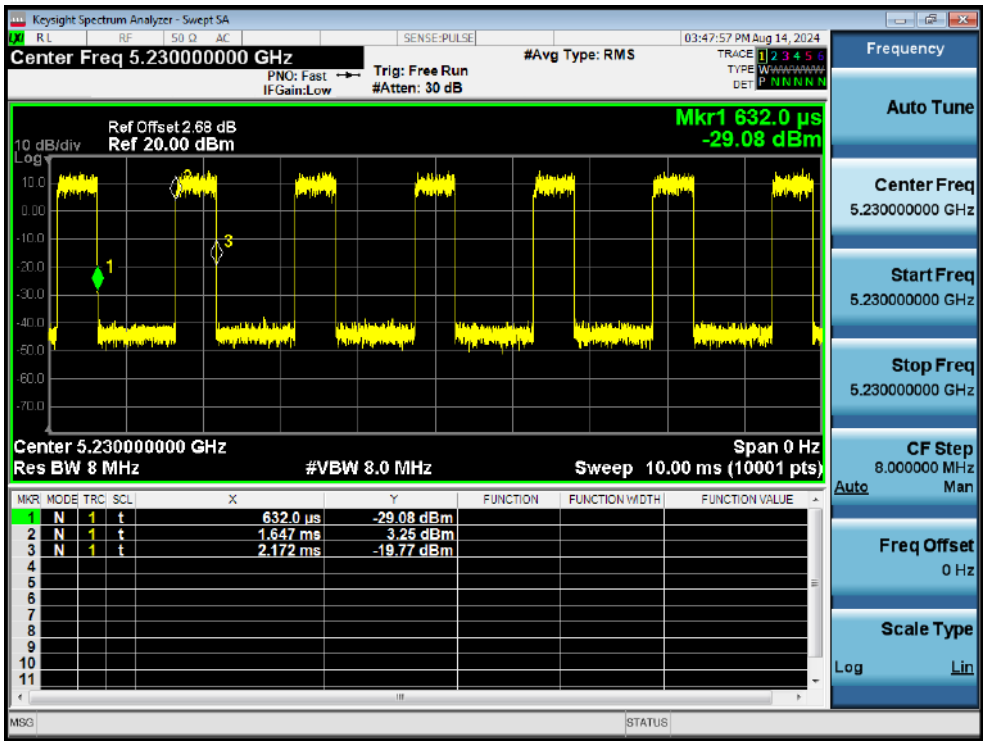
Duty Cycle NVNT n20 5200MHz Ant1



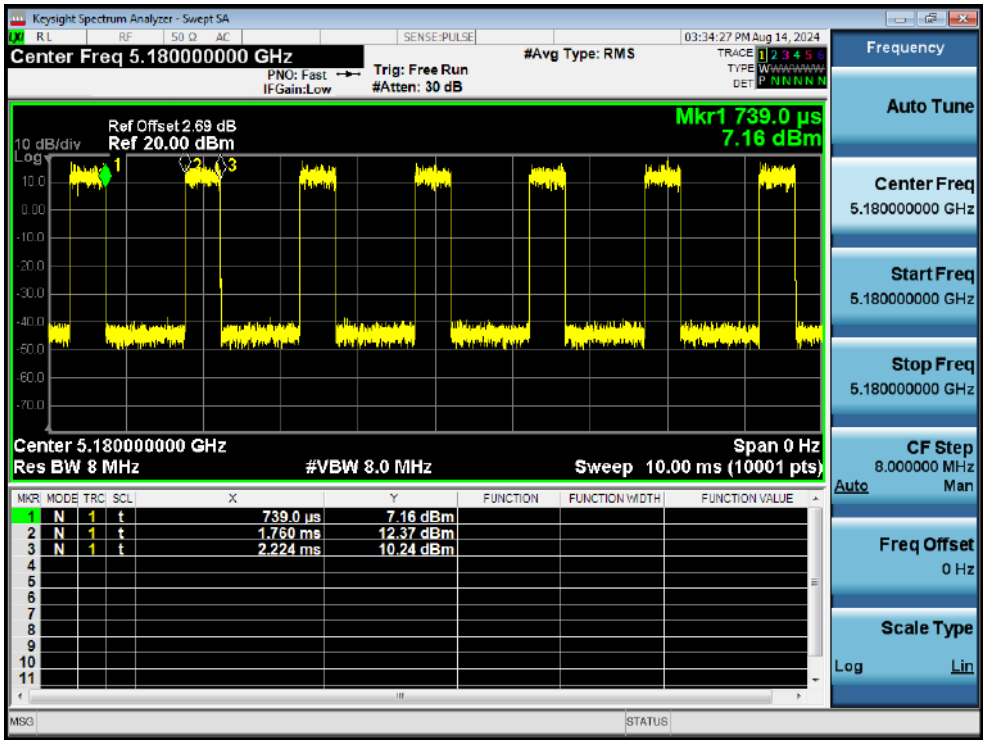
Duty Cycle NVNT n20 5240MHz Ant1



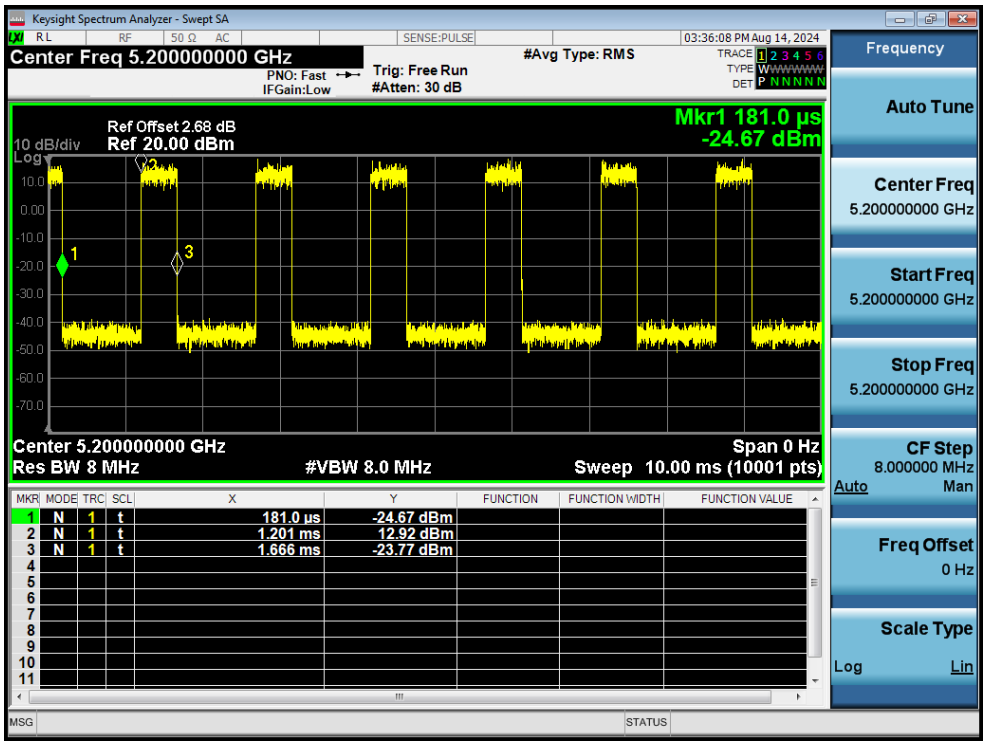
Duty Cycle NVNT n40 5190MHz Ant1



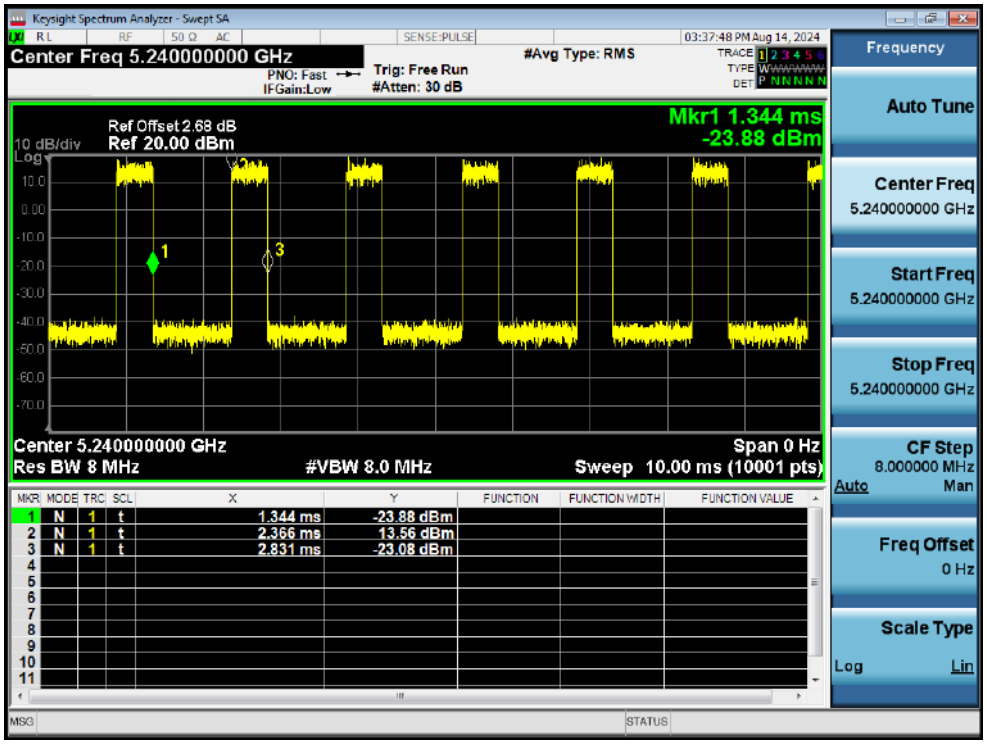
Duty Cycle NVNT n40 5230MHz Ant1



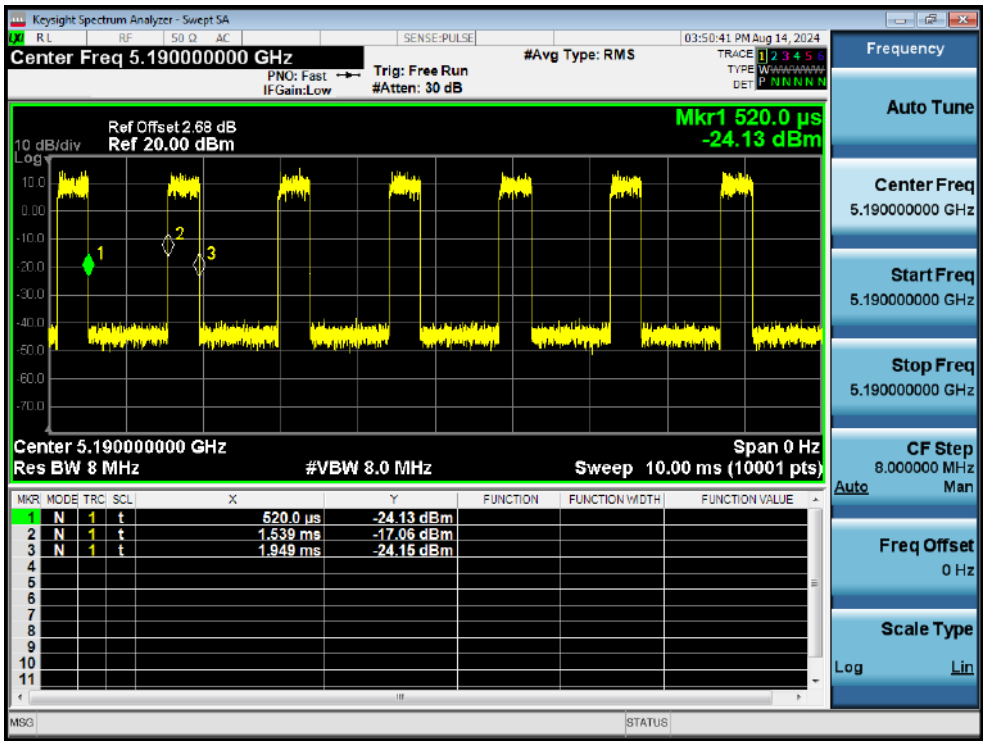
Duty Cycle NVNT ac20 5180MHz Ant1



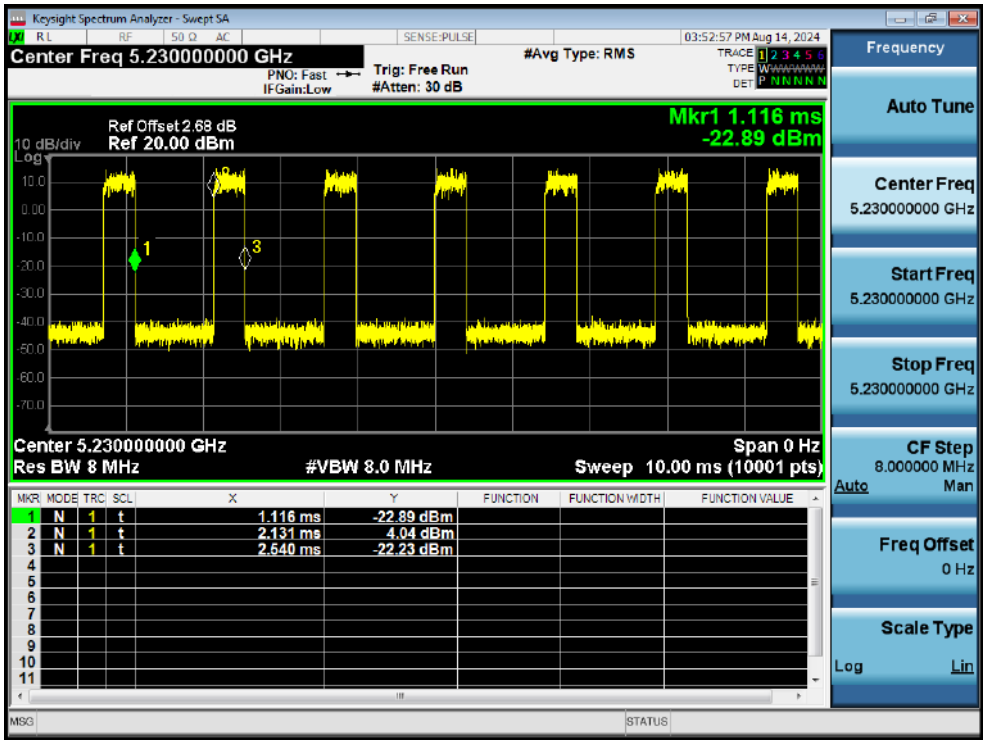
Duty Cycle NVNT ac20 5200MHz Ant1



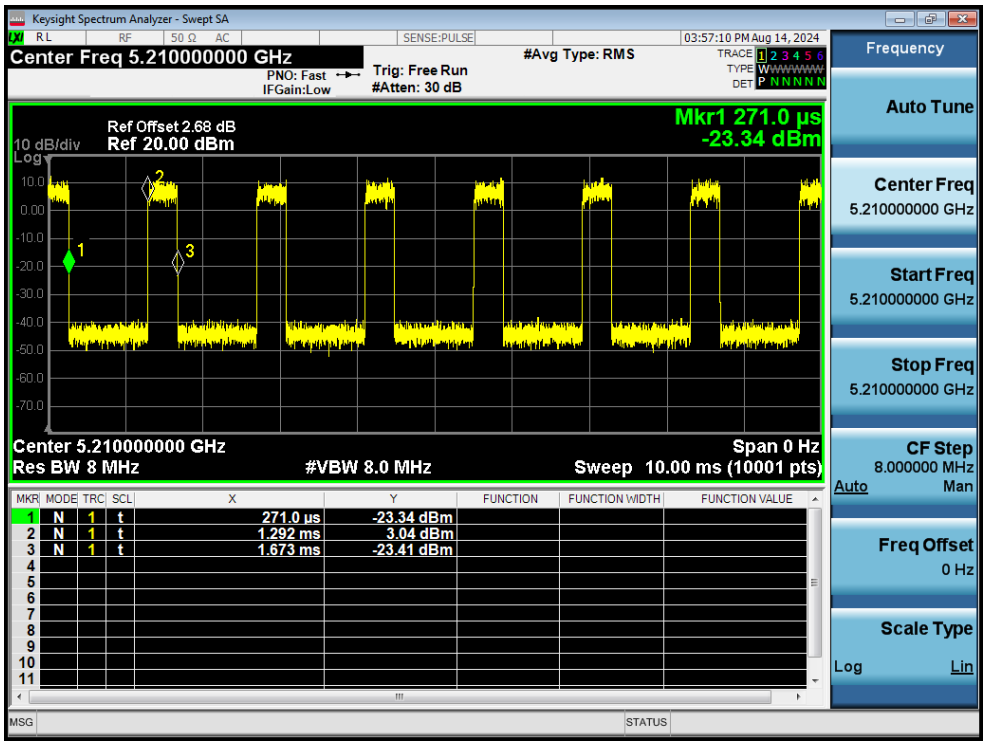
Duty Cycle NVNT ac20 5240MHz Ant1



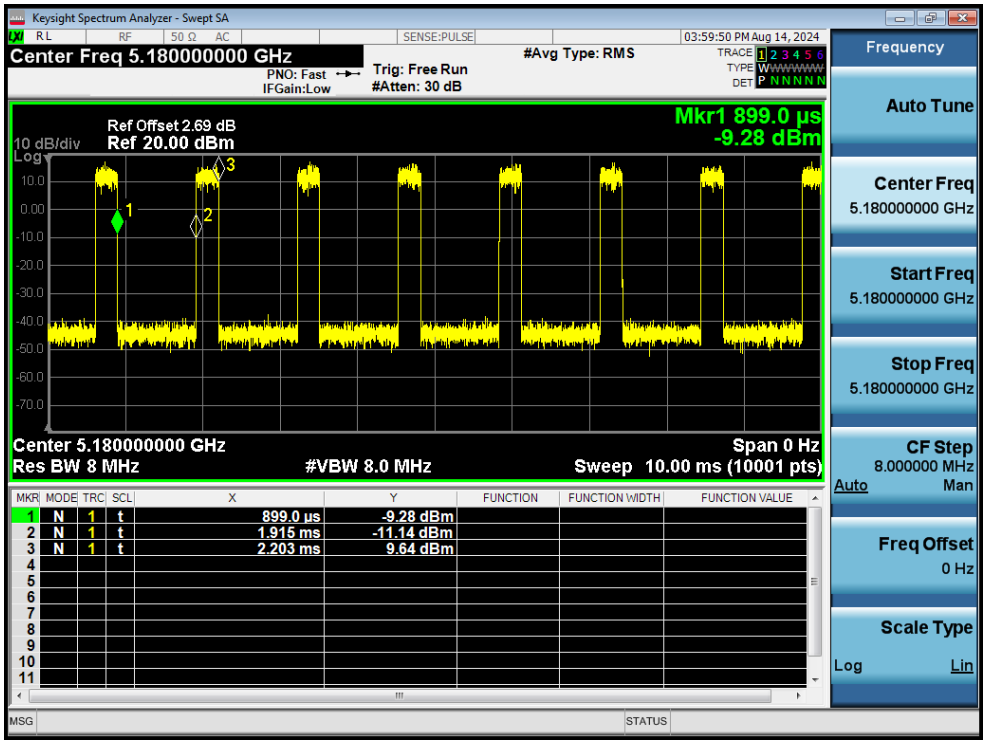
Duty Cycle NVNT ac40 5190MHz Ant1



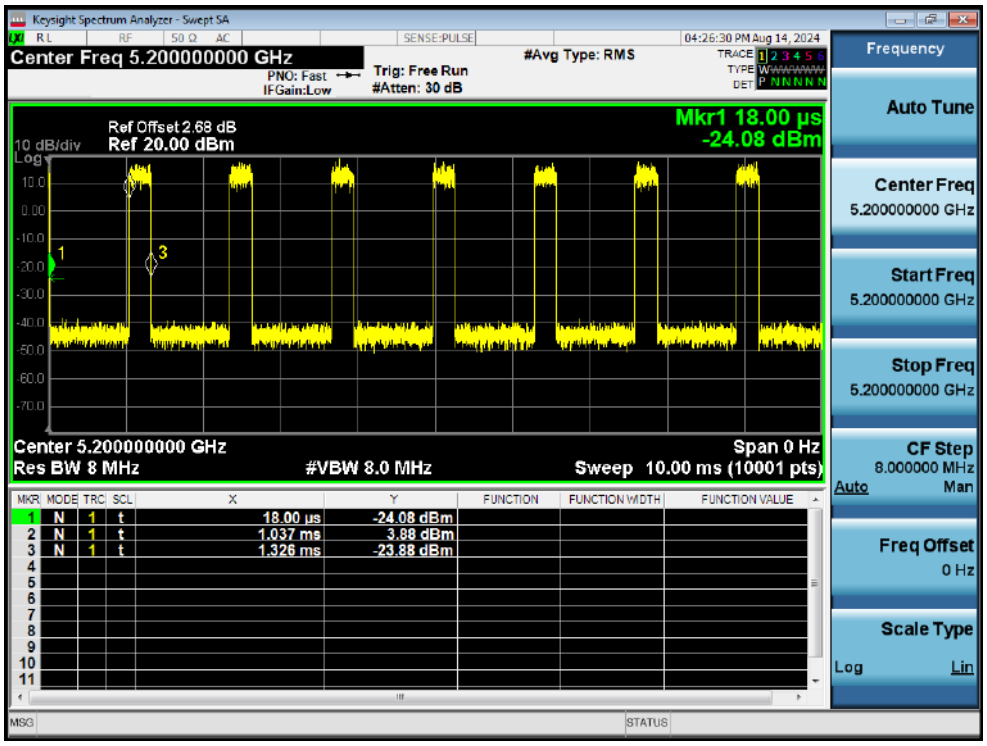
Duty Cycle NVNT ac40 5230MHz Ant1



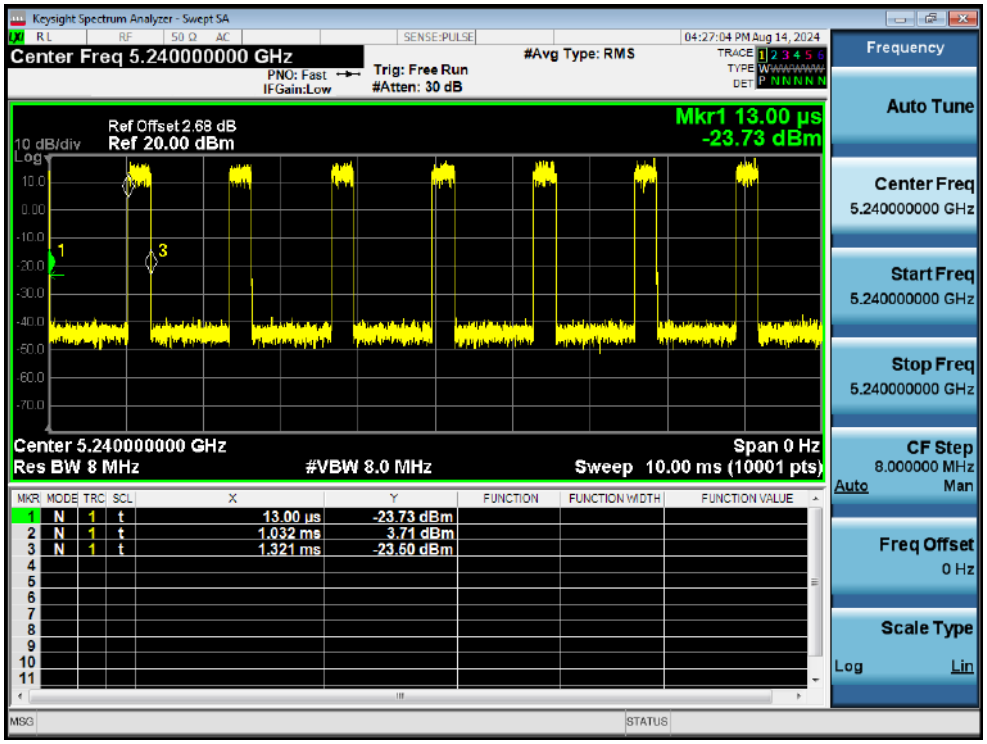
Duty Cycle NVNT ac80 5210MHz Ant1



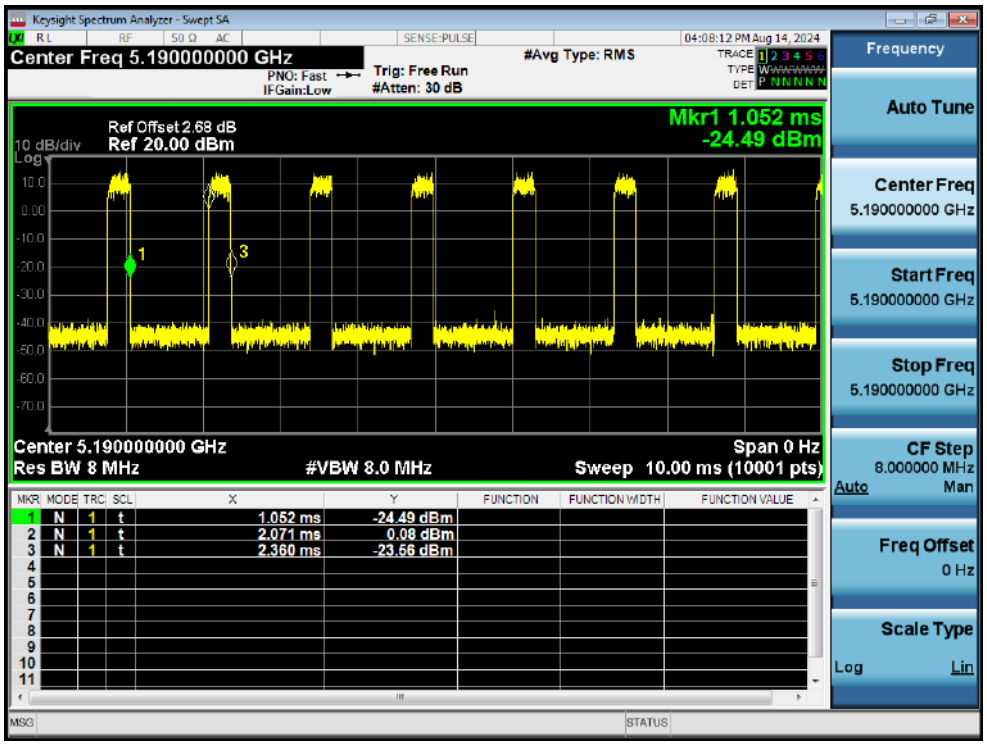
Duty Cycle NVNT ax20 5180MHz Ant1



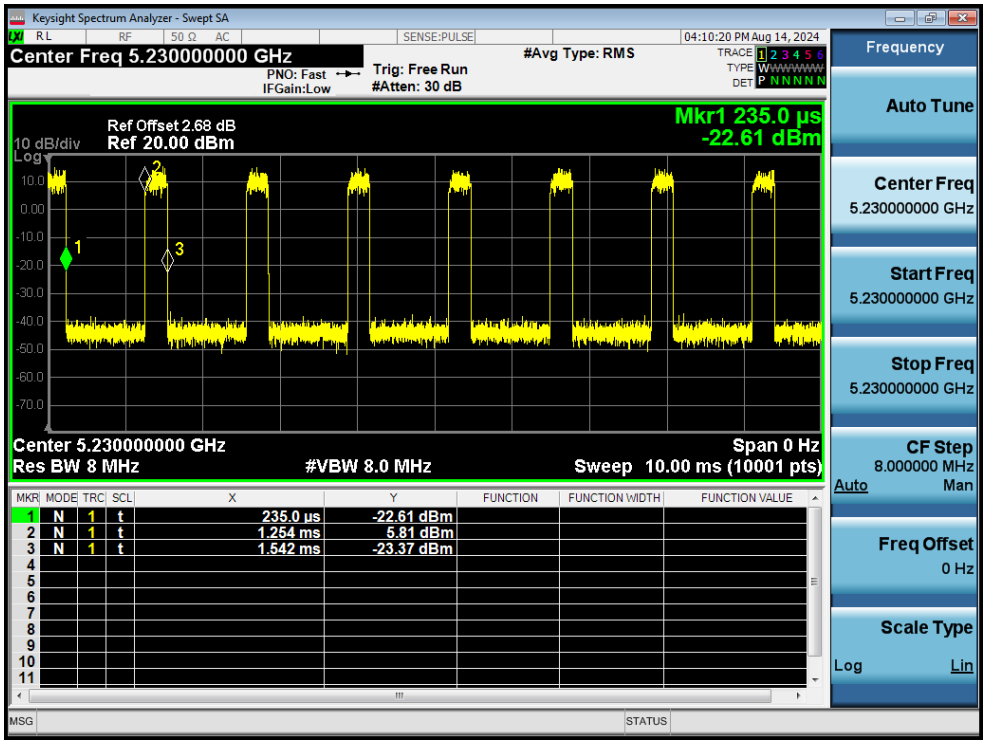
Duty Cycle NVNT ax20 5200MHz Ant1



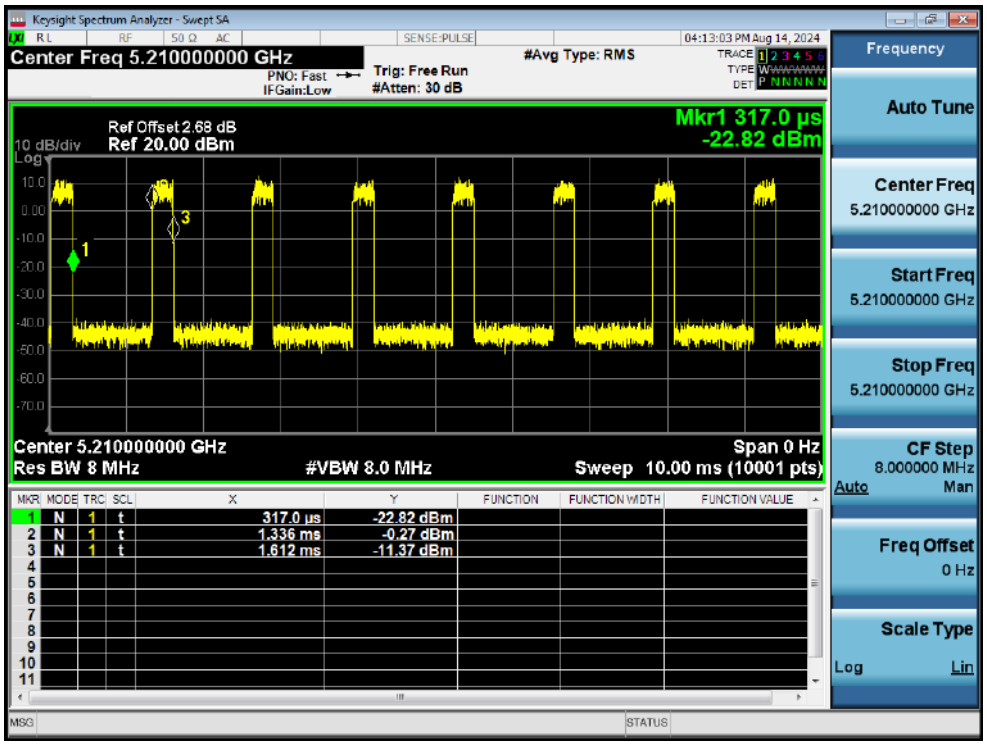
Duty Cycle NVNT ax20 5240MHz Ant1



Duty Cycle NVNT ax40 5190MHz Ant1



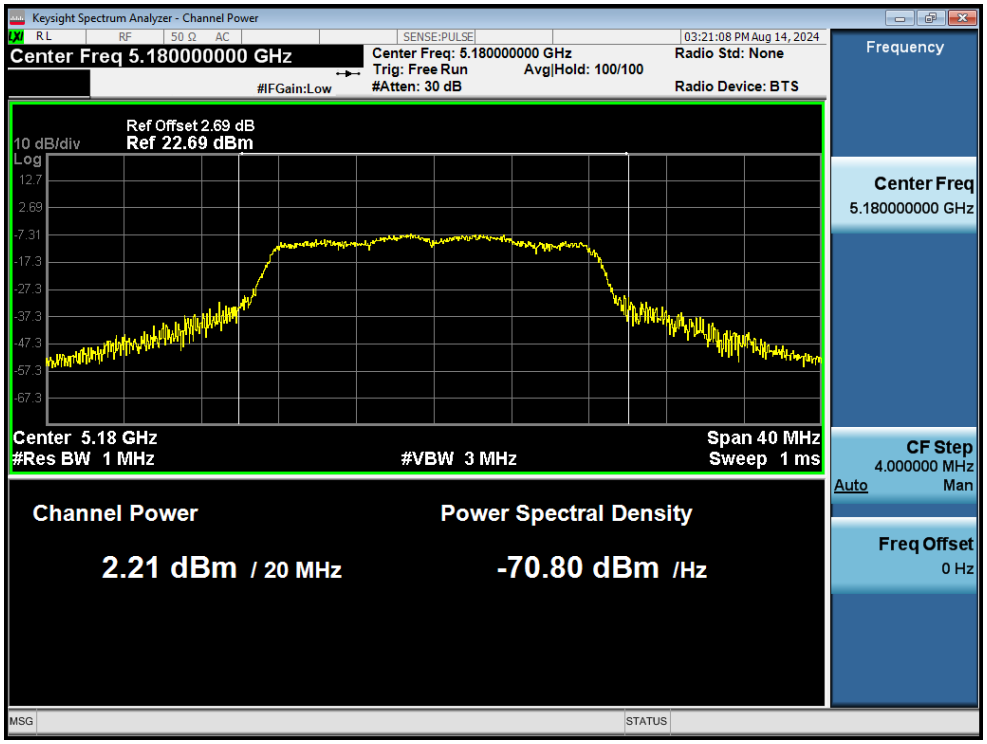
Duty Cycle NVNT ax40 5230MHz Ant1



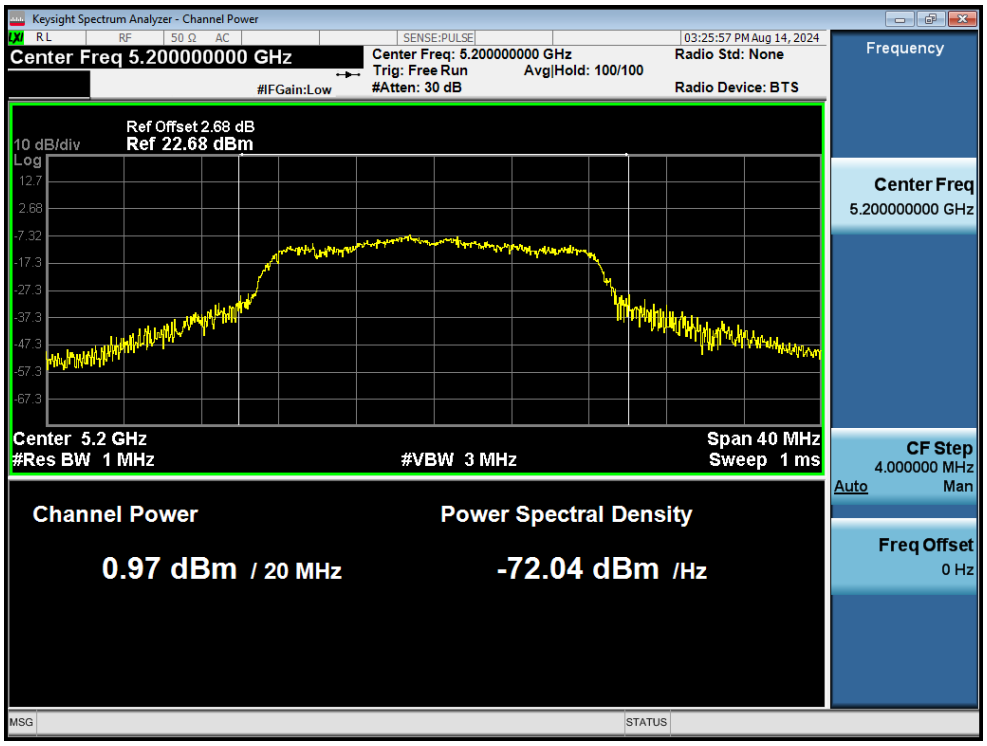
Duty Cycle NVNT ax80 5210MHz Ant1

2. Maximum Conducted Output Power

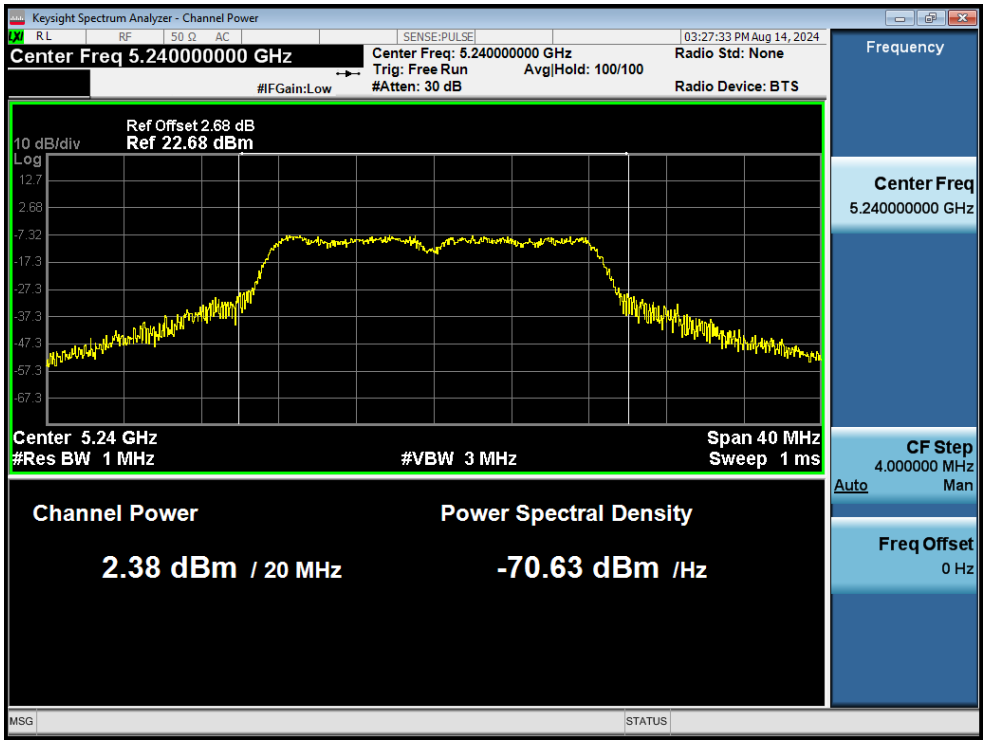
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	2.21	8.31	10.52	24	Pass
NVNT	a	5200	Ant1	0.97	8.33	9.3	24	Pass
NVNT	a	5240	Ant1	2.38	8.29	10.67	24	Pass
NVNT	n20	5180	Ant1	5.75	4.59	10.34	24	Pass
NVNT	n20	5200	Ant1	5.79	4.57	10.36	24	Pass
NVNT	n20	5240	Ant1	7.01	4.59	11.6	24	Pass
NVNT	n40	5190	Ant1	5.79	4.68	10.47	24	Pass
NVNT	n40	5230	Ant1	6.44	4.67	11.11	24	Pass
NVNT	ac20	5180	Ant1	4.06	5.05	9.11	24	Pass
NVNT	ac20	5200	Ant1	6.55	5.04	11.59	24	Pass
NVNT	ac20	5240	Ant1	6.7	5.05	11.75	24	Pass
NVNT	ac40	5190	Ant1	5.19	5.42	10.61	24	Pass
NVNT	ac40	5230	Ant1	5.98	5.42	11.4	24	Pass
NVNT	ac80	5210	Ant1	4.97	5.66	10.63	24	Pass
NVNT	ax20	5180	Ant1	3.37	6.56	9.93	24	Pass
NVNT	ax20	5200	Ant1	5.2	6.56	11.76	24	Pass
NVNT	ax20	5240	Ant1	4.88	6.56	11.44	24	Pass
NVNT	ax40	5190	Ant1	4.34	6.56	10.9	24	Pass
NVNT	ax40	5230	Ant1	3.91	6.57	10.48	24	Pass
NVNT	ax80	5210	Ant1	4.48	6.71	11.19	24	Pass



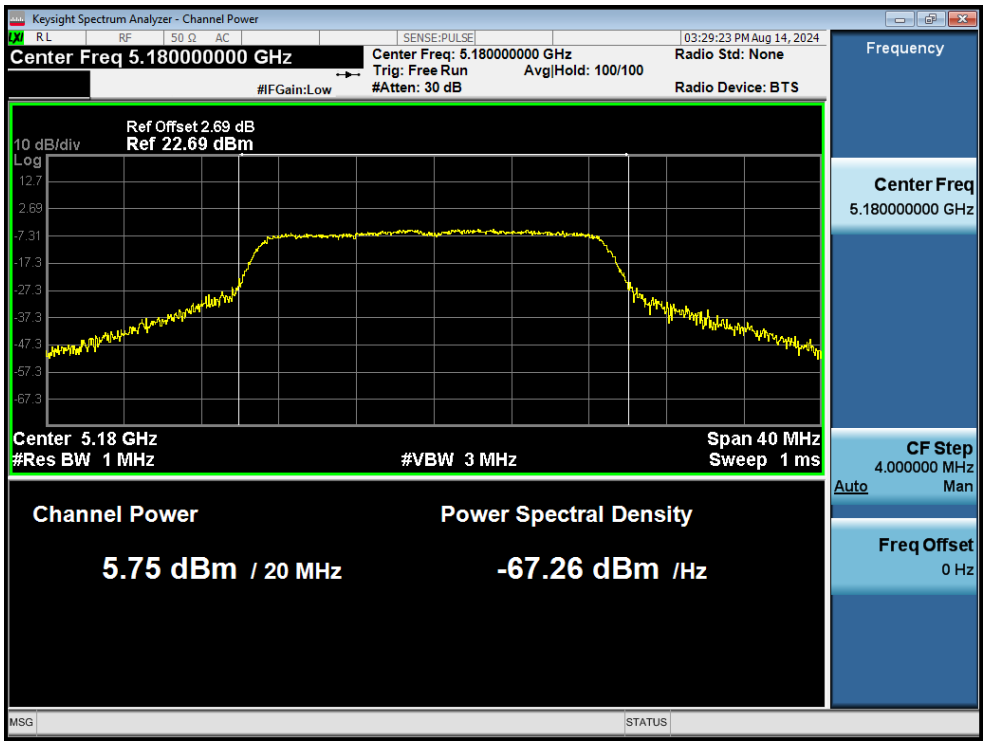
Power NVNT a 5180MHz Ant1



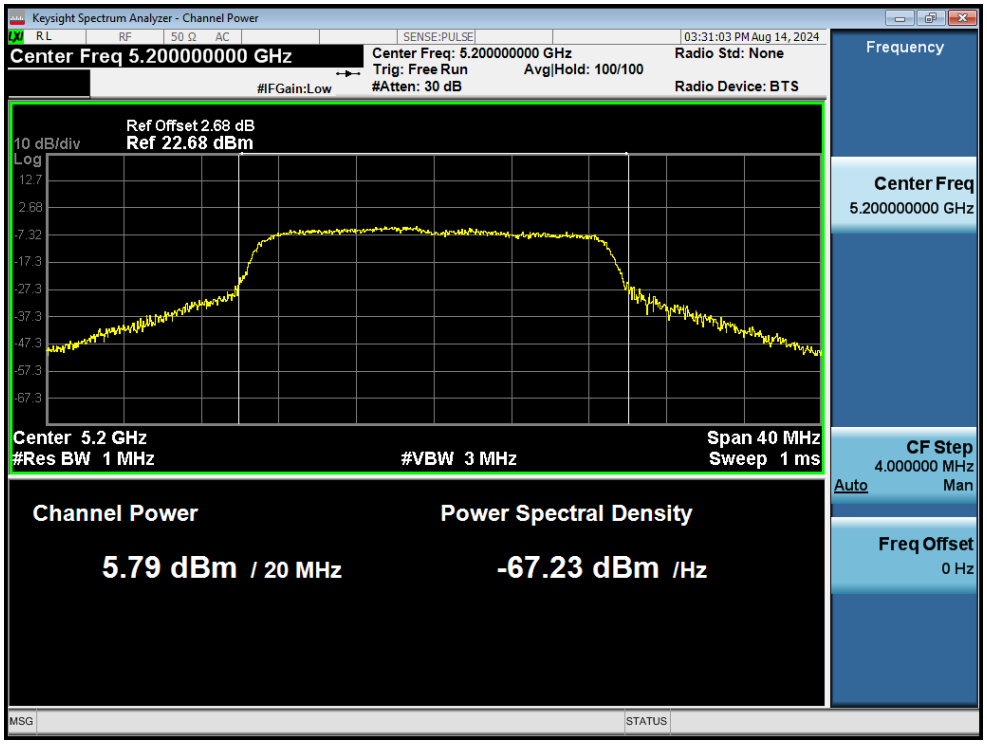
Power NVNT a 5200MHz Ant1



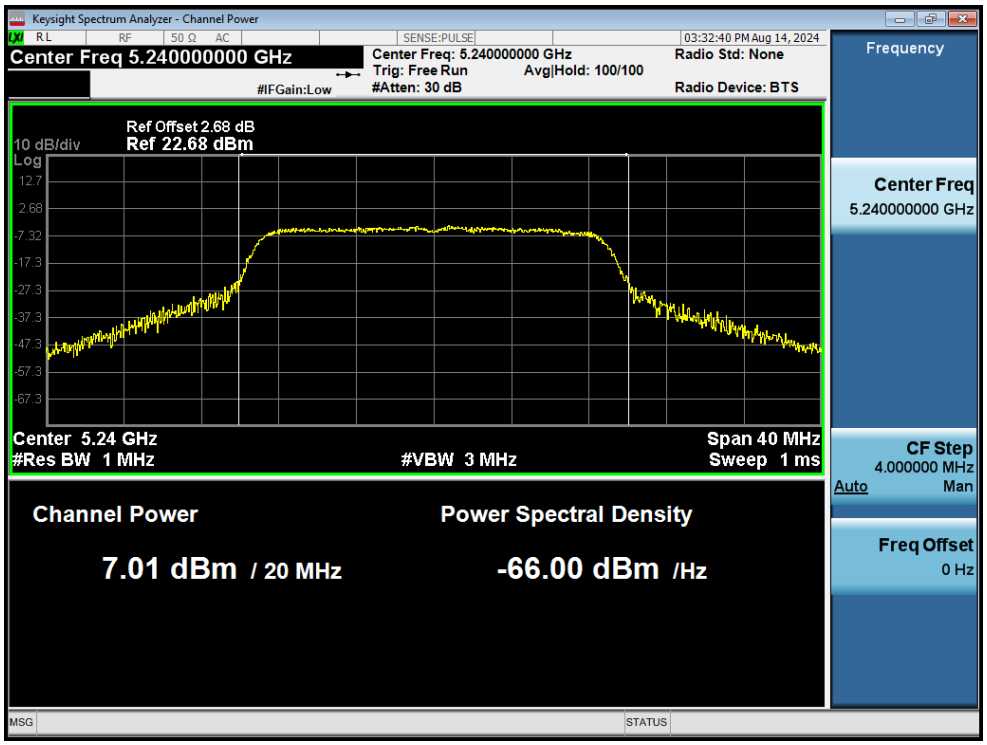
Power NVNT a 5240MHz Ant1



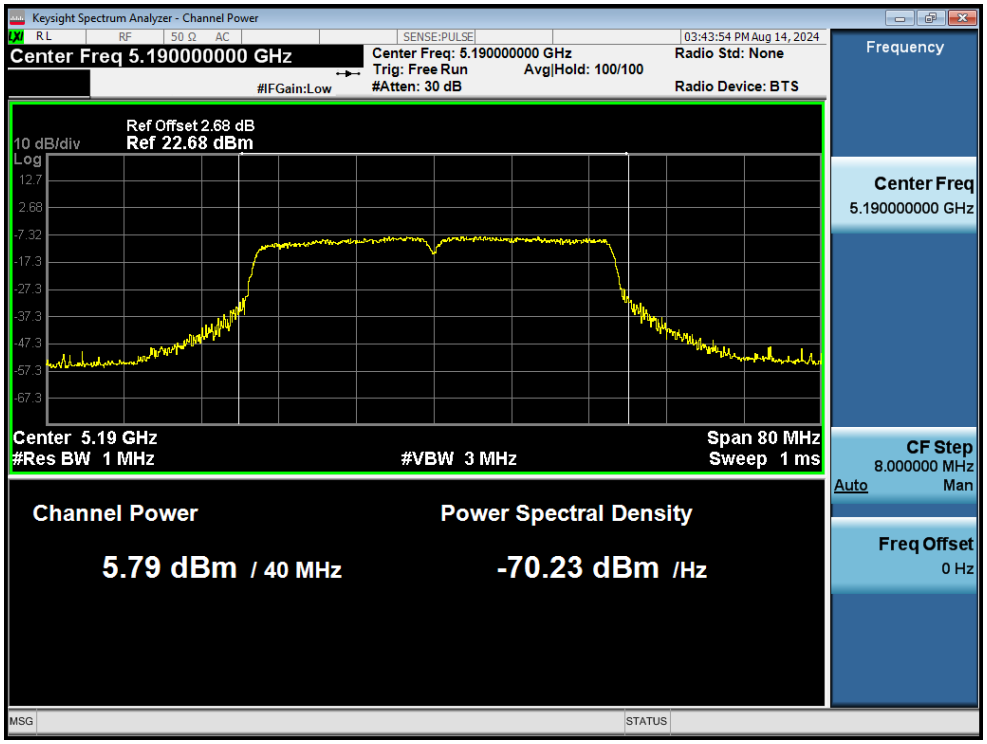
Power NVNT n20 5180MHz Ant1



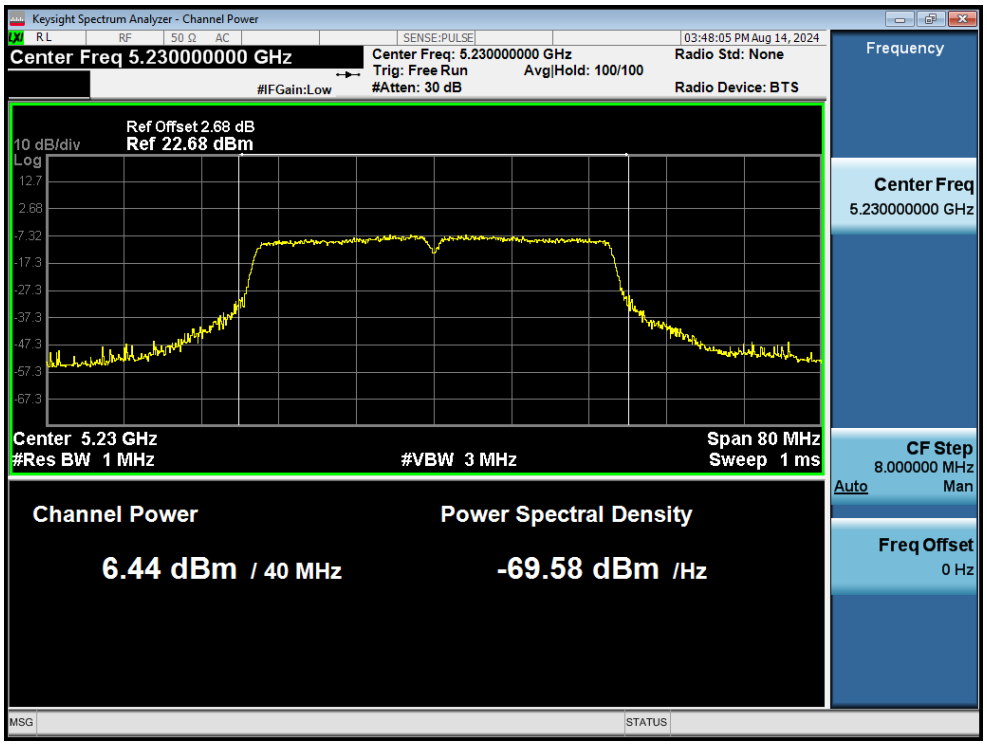
Power NVNT n20 5200MHz Ant1



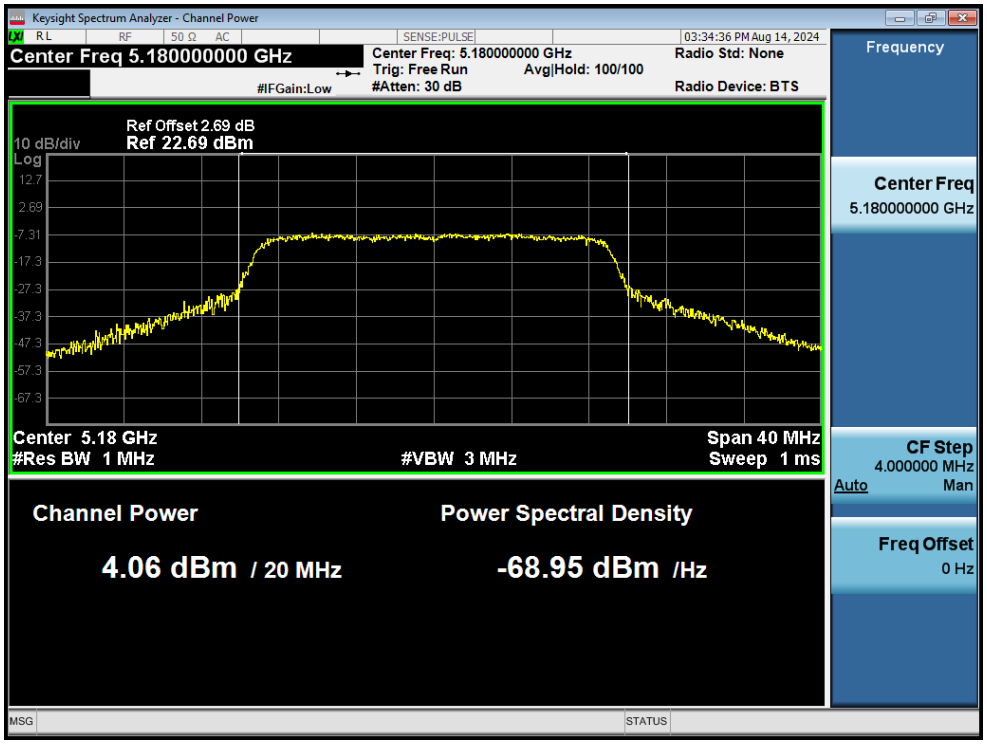
Power NVNT n20 5240MHz Ant1



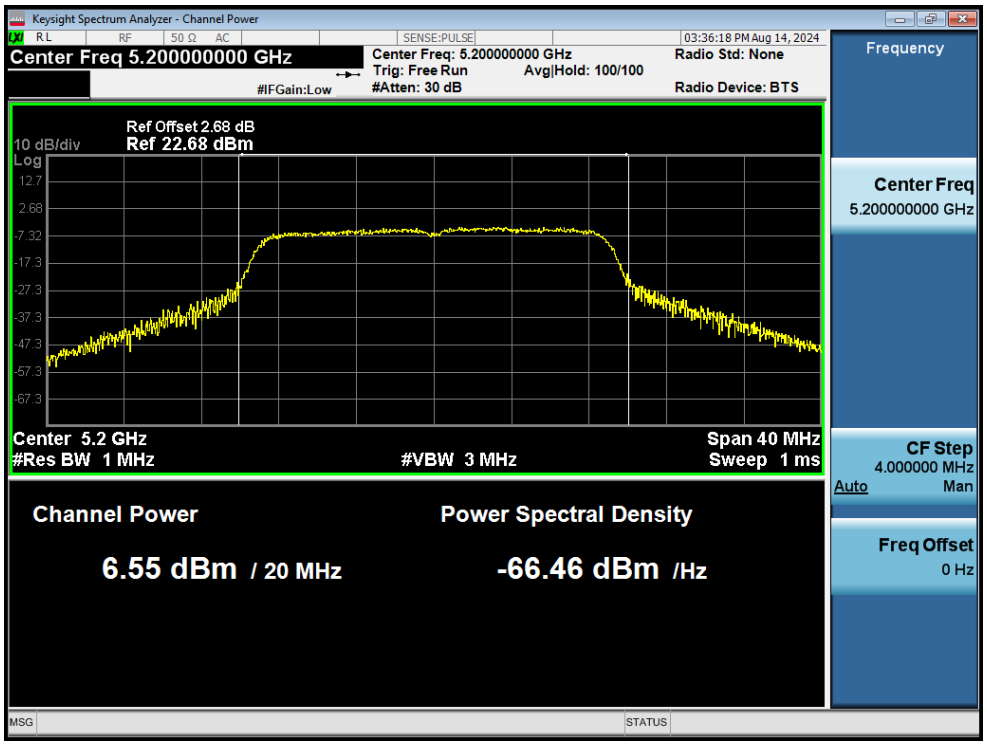
Power NVNT n40 5190MHz Ant1



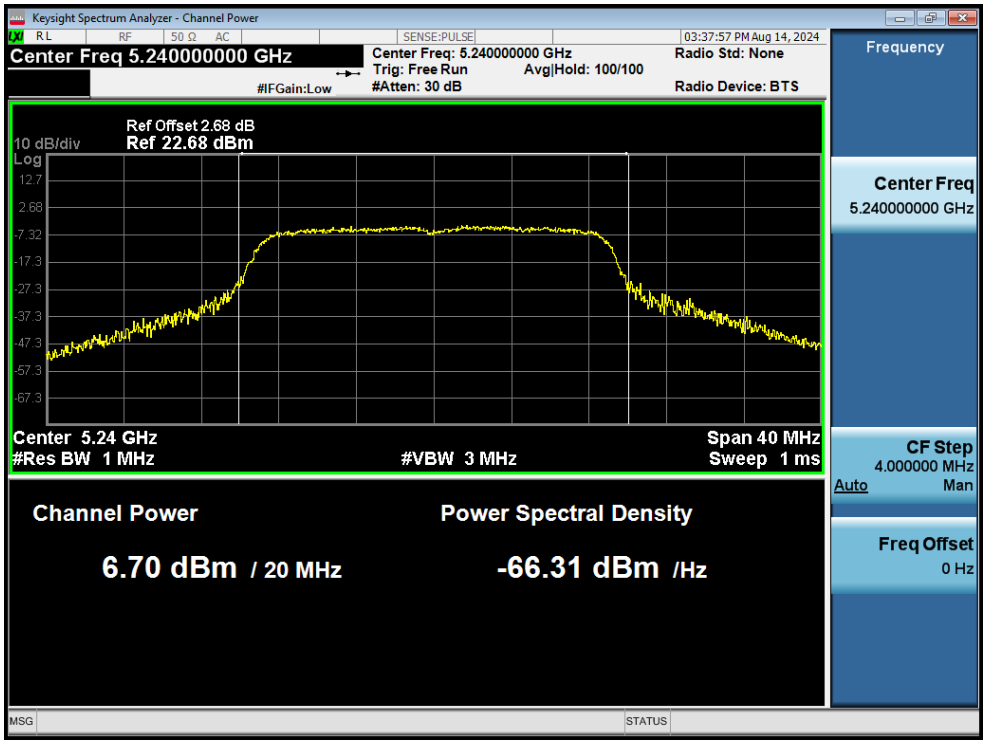
Power NVNT n40 5230MHz Ant1



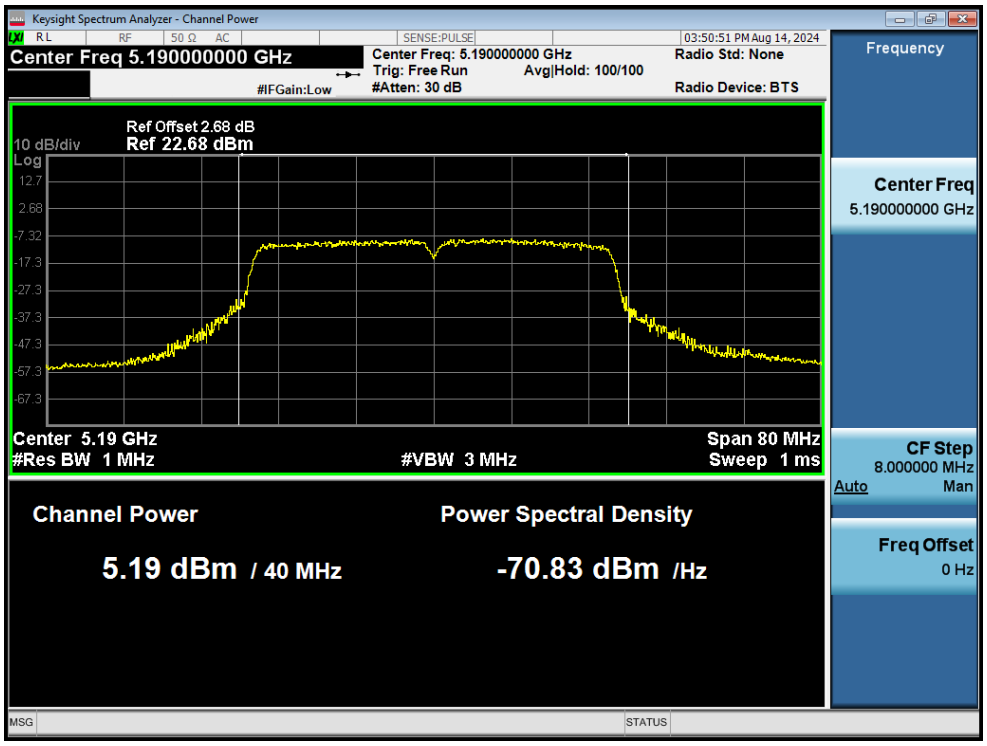
Power NVNT ac20 5180MHz Ant1



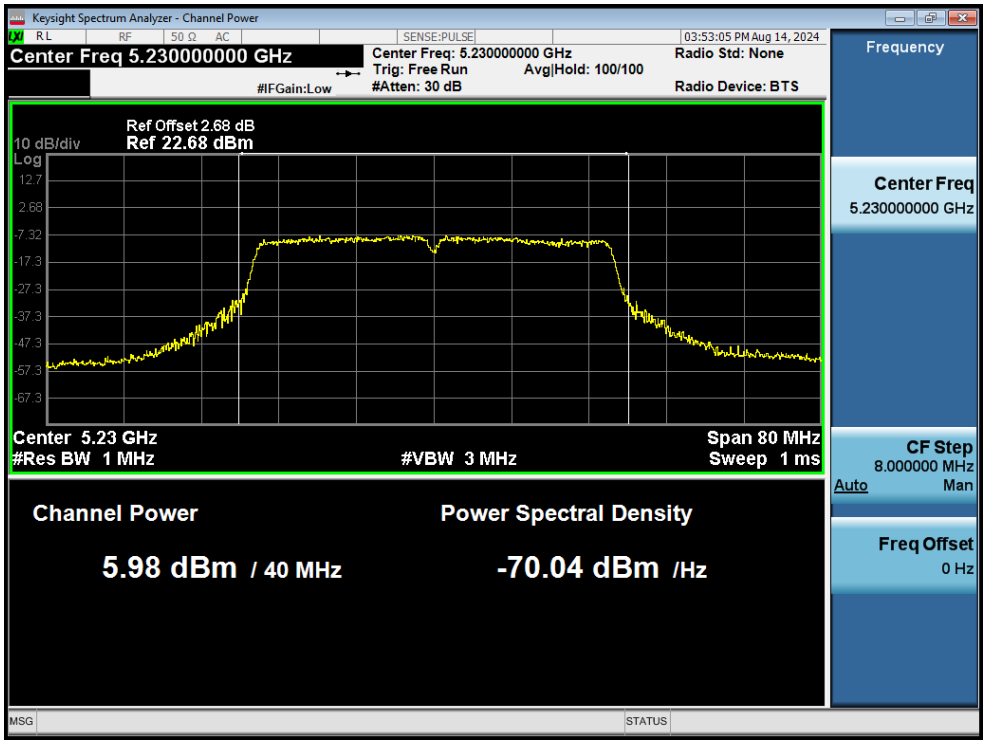
Power NVNT ac20 5200MHz Ant1



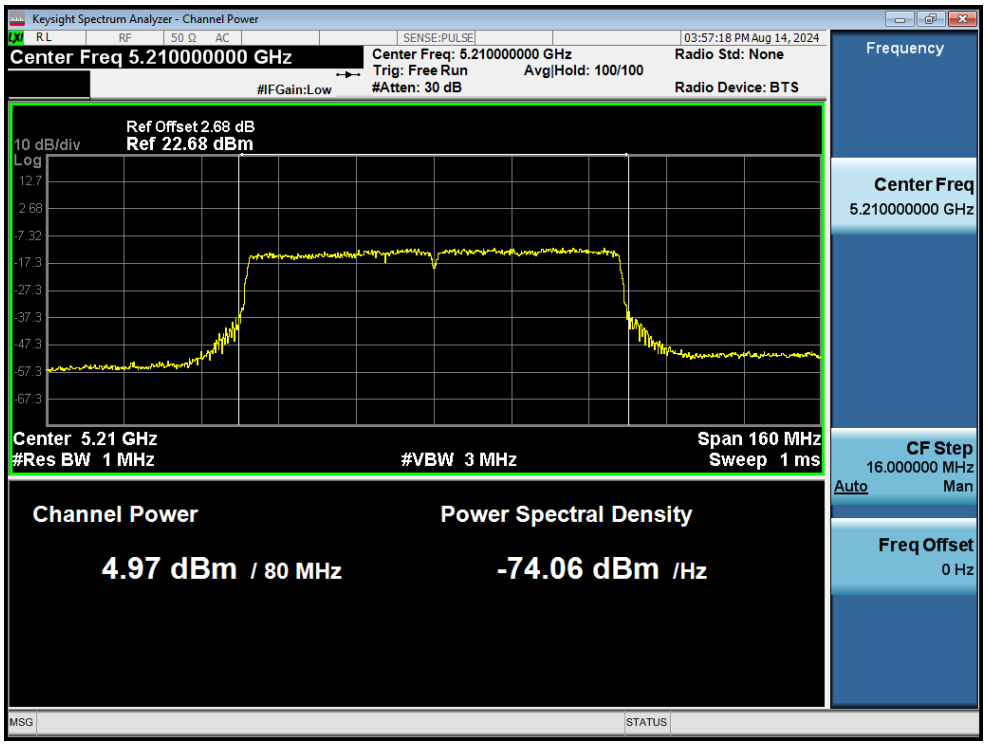
Power NVNT ac20 5240MHz Ant1



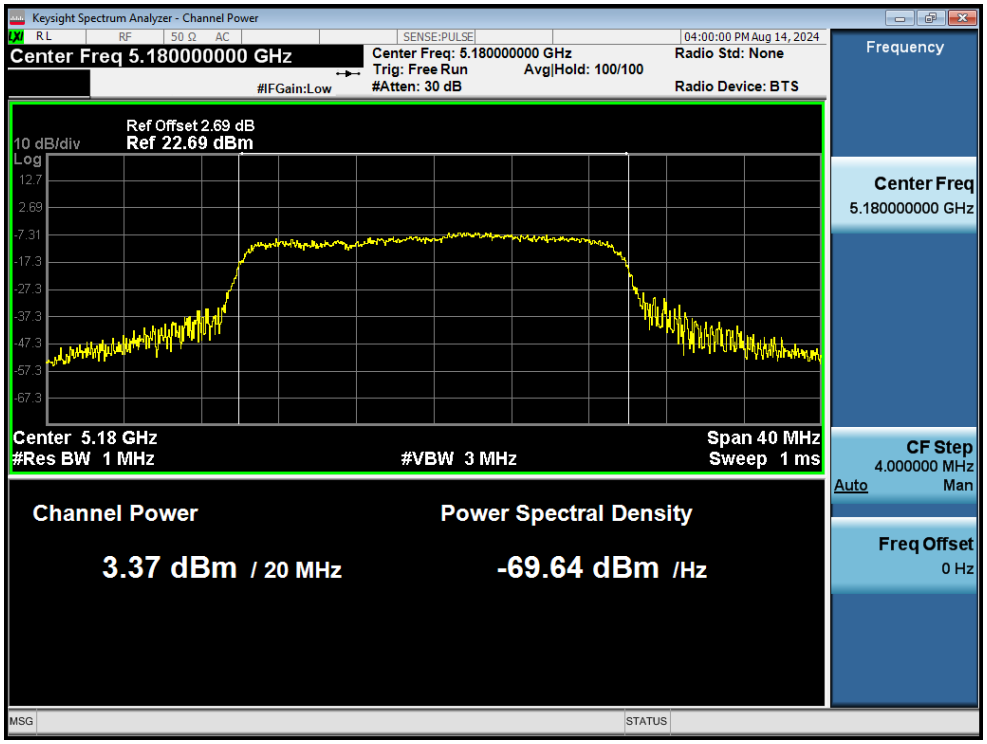
Power NVNT ac40 5190MHz Ant1



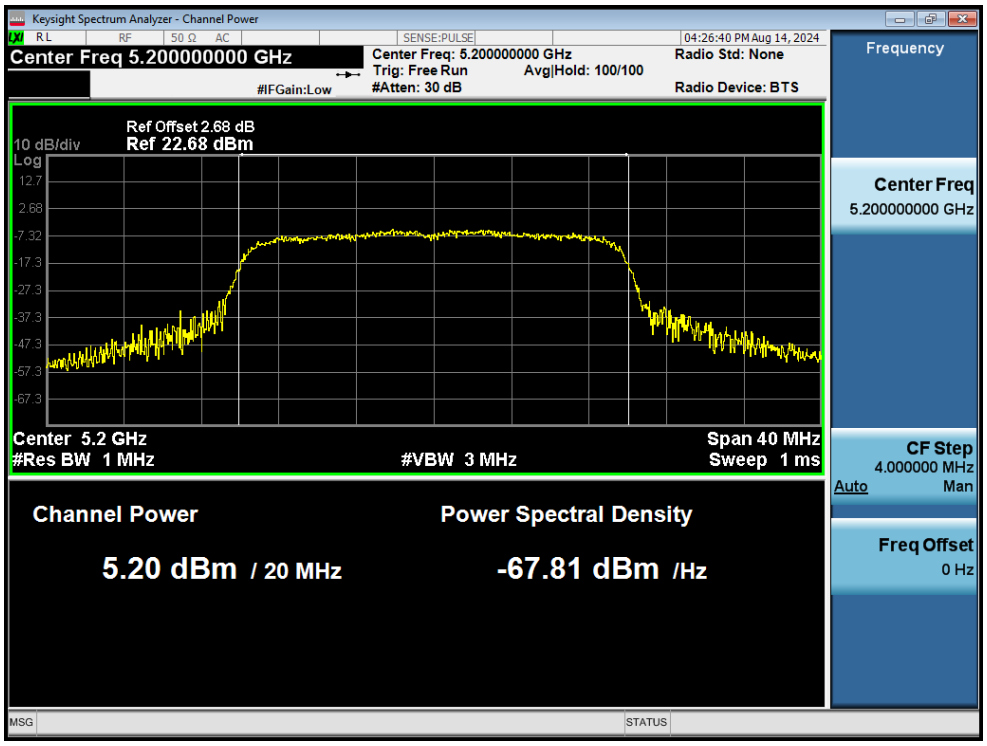
Power NVNT ac40 5230MHz Ant1



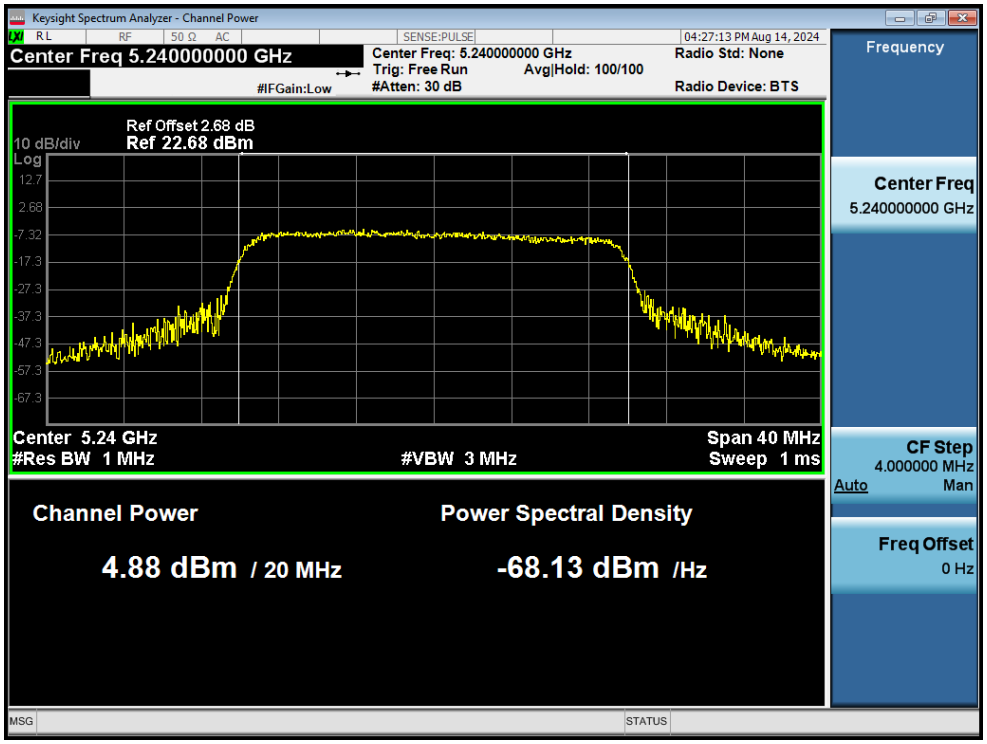
Power NVNT ac80 5210MHz Ant1



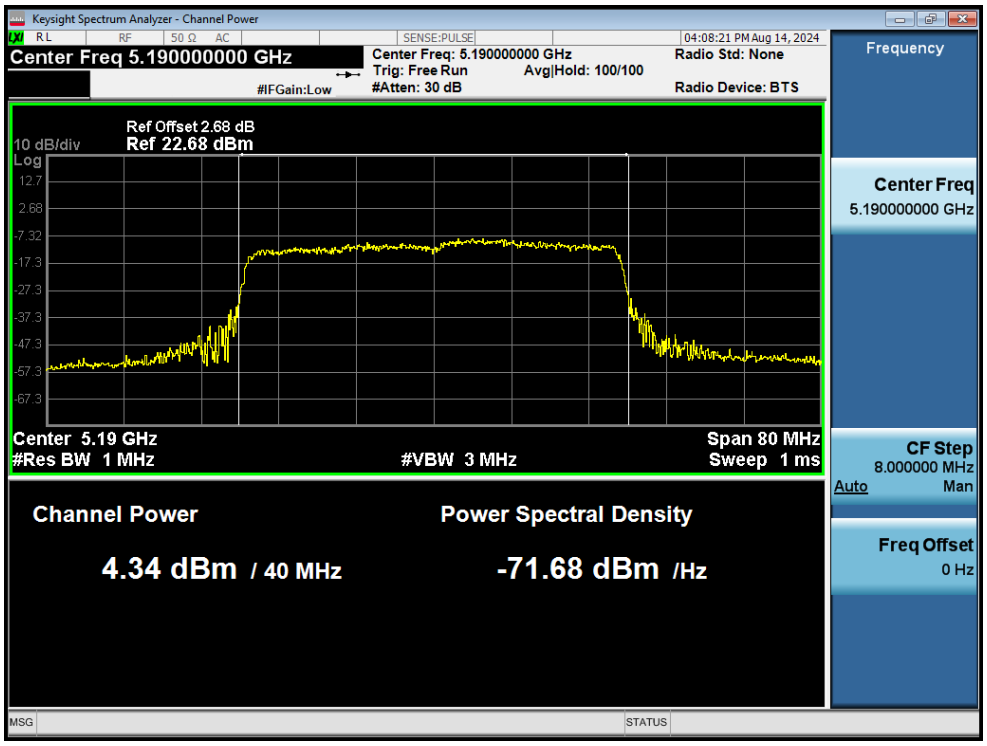
Power NVNT ax20 5180MHz Ant1



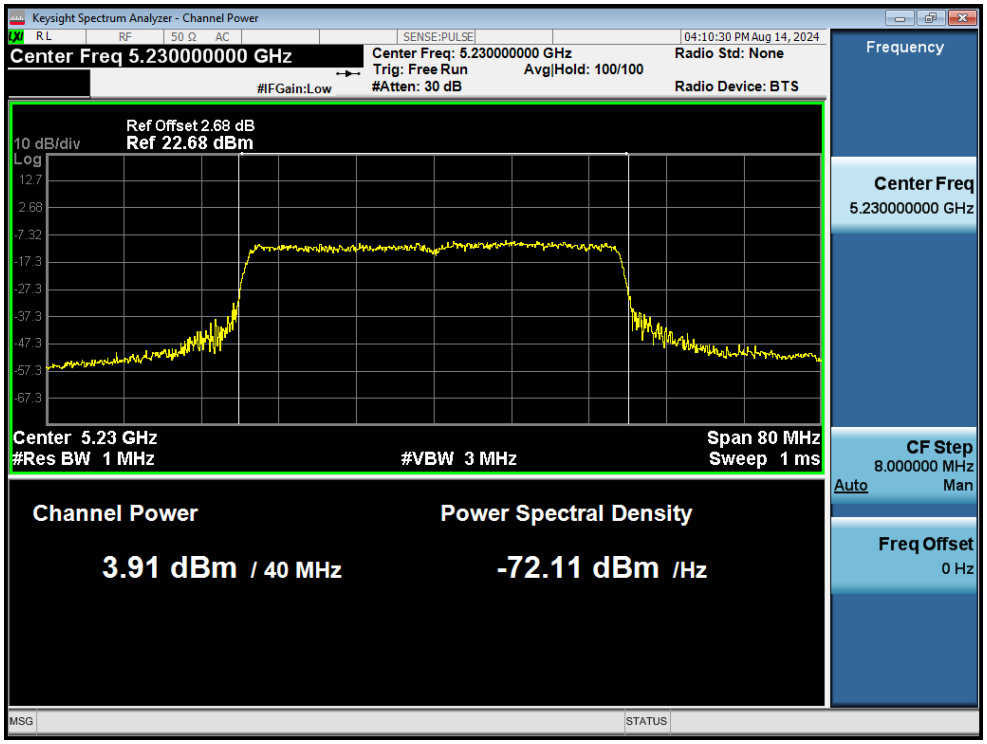
Power NVNT ax20 5200MHz Ant1



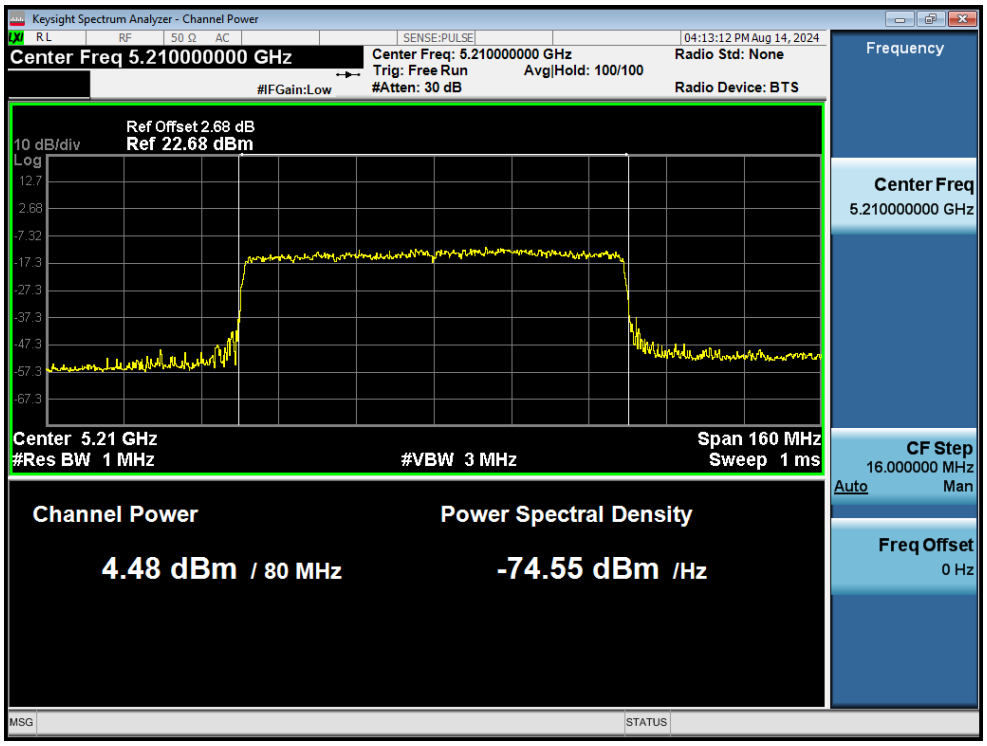
Power NVNT ax20 5240MHz Ant1



Power NVNT ax40 5190MHz Ant1



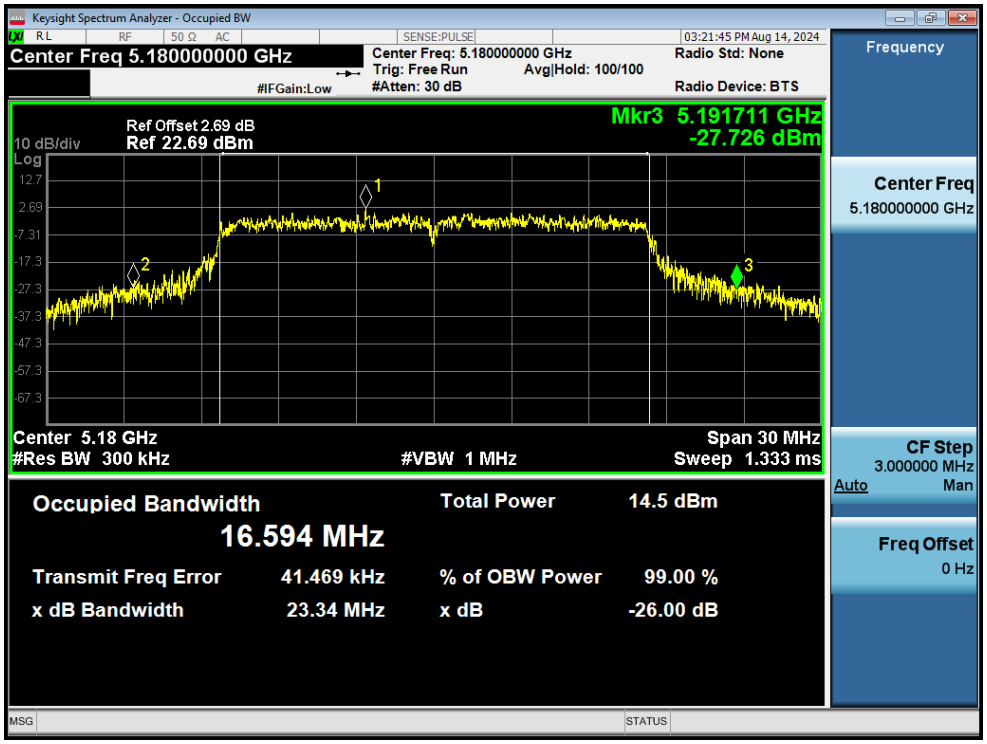
Power NVNT ax40 5230MHz Ant1



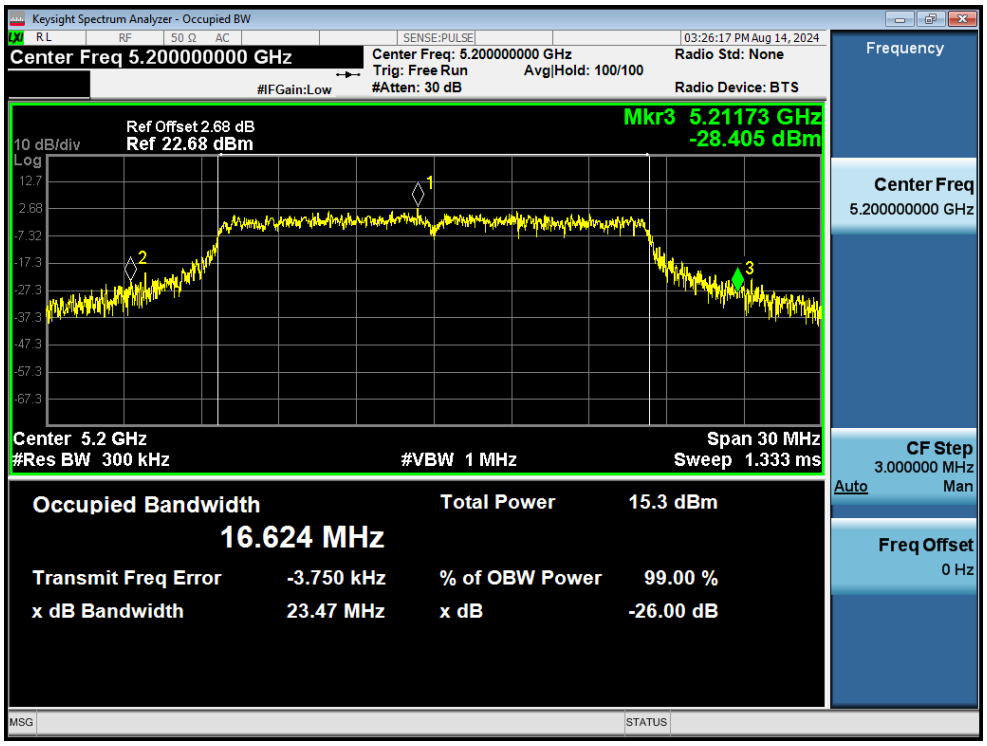
Power NVNT ax80 5210MHz Ant1

3. -26dB Bandwidth

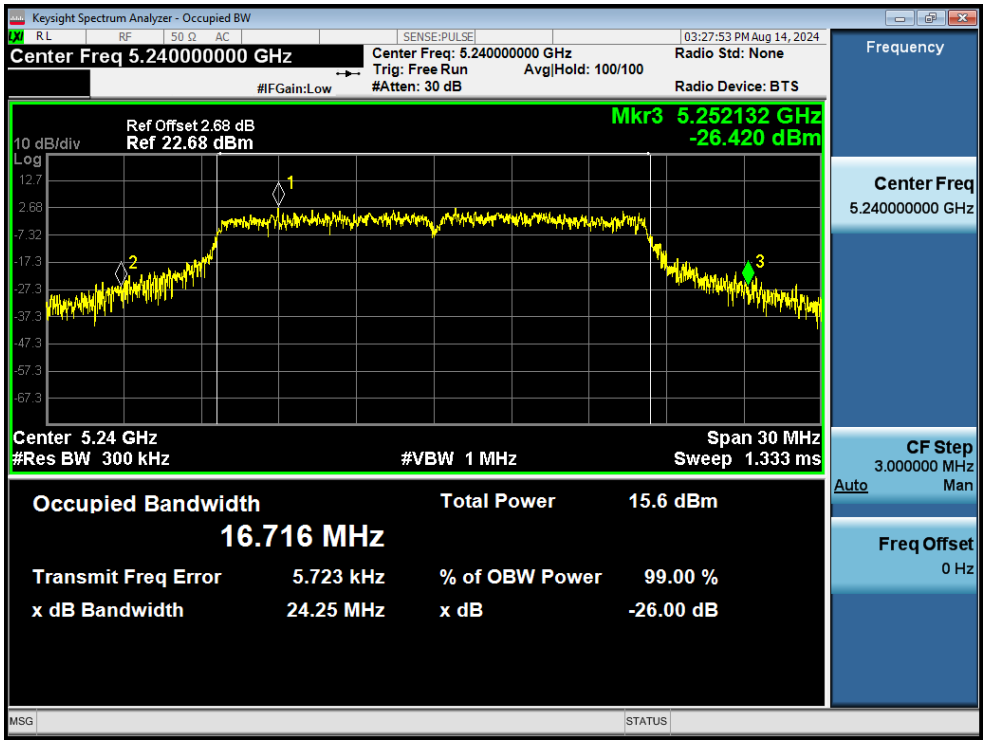
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	23.339	Pass
NVNT	a	5200	Ant1	23.468	Pass
NVNT	a	5240	Ant1	24.252	Pass
NVNT	n20	5180	Ant1	25.267	Pass
NVNT	n20	5200	Ant1	24.839	Pass
NVNT	n20	5240	Ant1	24.079	Pass
NVNT	n40	5190	Ant1	42.457	Pass
NVNT	n40	5230	Ant1	41.245	Pass
NVNT	ac20	5180	Ant1	23.889	Pass
NVNT	ac20	5200	Ant1	25.11	Pass
NVNT	ac20	5240	Ant1	26.342	Pass
NVNT	ac40	5190	Ant1	42.383	Pass
NVNT	ac40	5230	Ant1	42.229	Pass
NVNT	ac80	5210	Ant1	81.691	Pass
NVNT	ax20	5180	Ant1	24.418	Pass
NVNT	ax20	5200	Ant1	24.049	Pass
NVNT	ax20	5240	Ant1	24.625	Pass
NVNT	ax40	5190	Ant1	41.438	Pass
NVNT	ax40	5230	Ant1	42.133	Pass
NVNT	ax80	5210	Ant1	80.536	Pass



-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



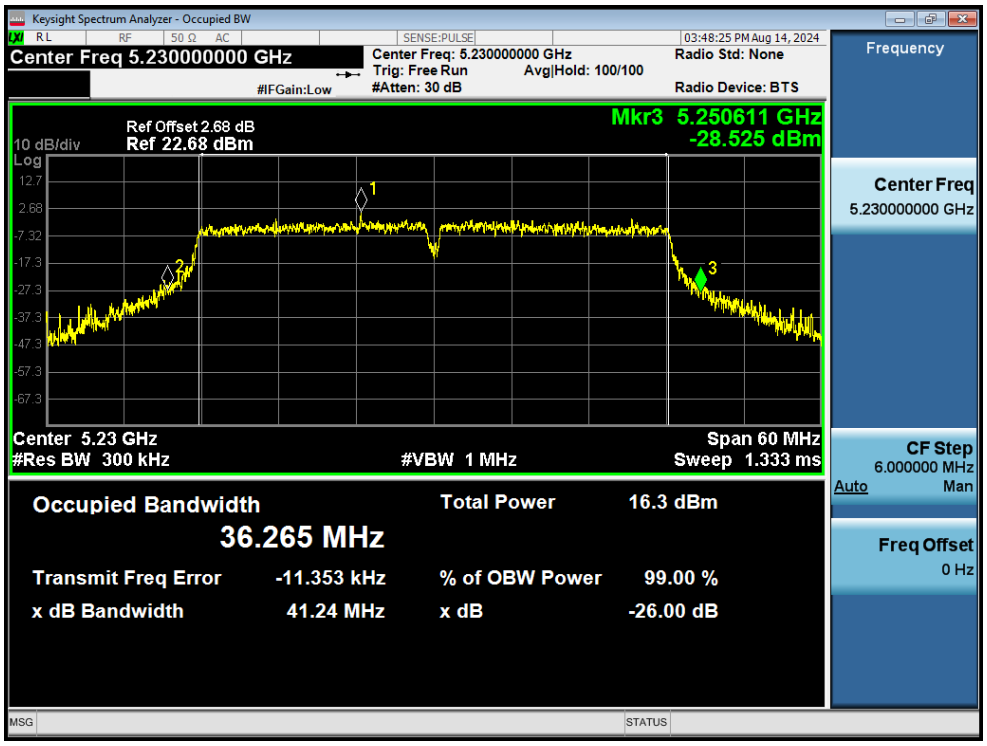
-26dB Bandwidth NVNT a 5240MHz Ant1

-26dB Bandwidth NVNT n20 5180MHz Ant1

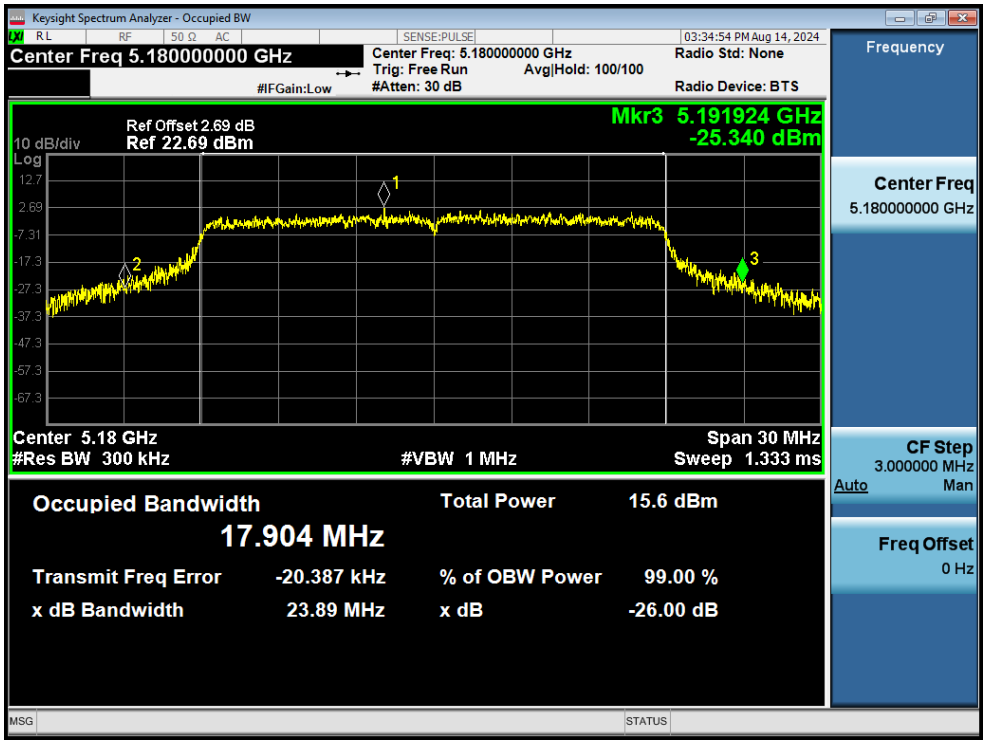
-26dB Bandwidth NVNT n20 5200MHz Ant1

-26dB Bandwidth NVNT n20 5240MHz Ant1

-26dB Bandwidth NVNT n40 5190MHz Ant1

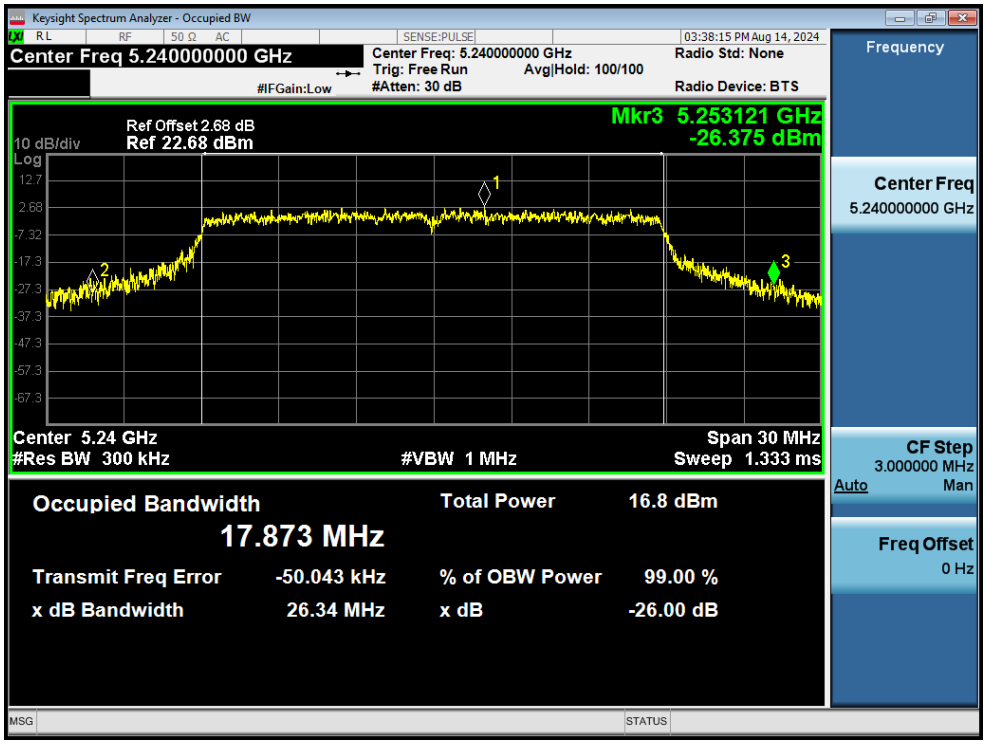


-26dB Bandwidth NVNT n40 5230MHz Ant1



-26dB Bandwidth NVNT ac20 5180MHz Ant1

-26dB Bandwidth NVNT ac20 5200MHz Ant1

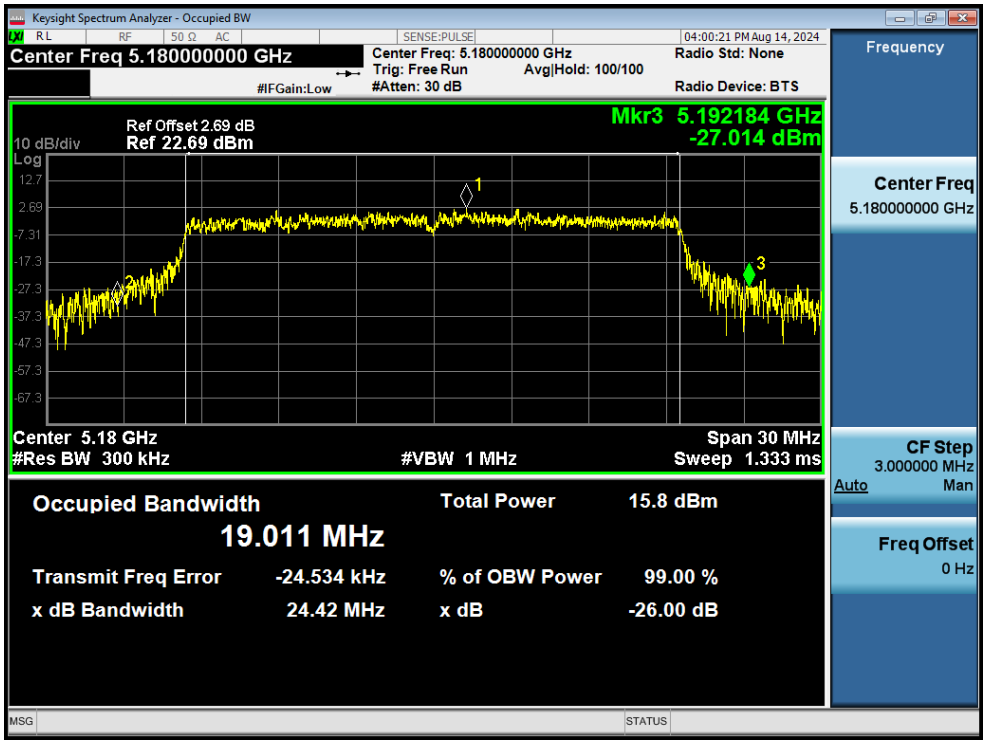


-26dB Bandwidth NVNT ac20 5240MHz Ant1

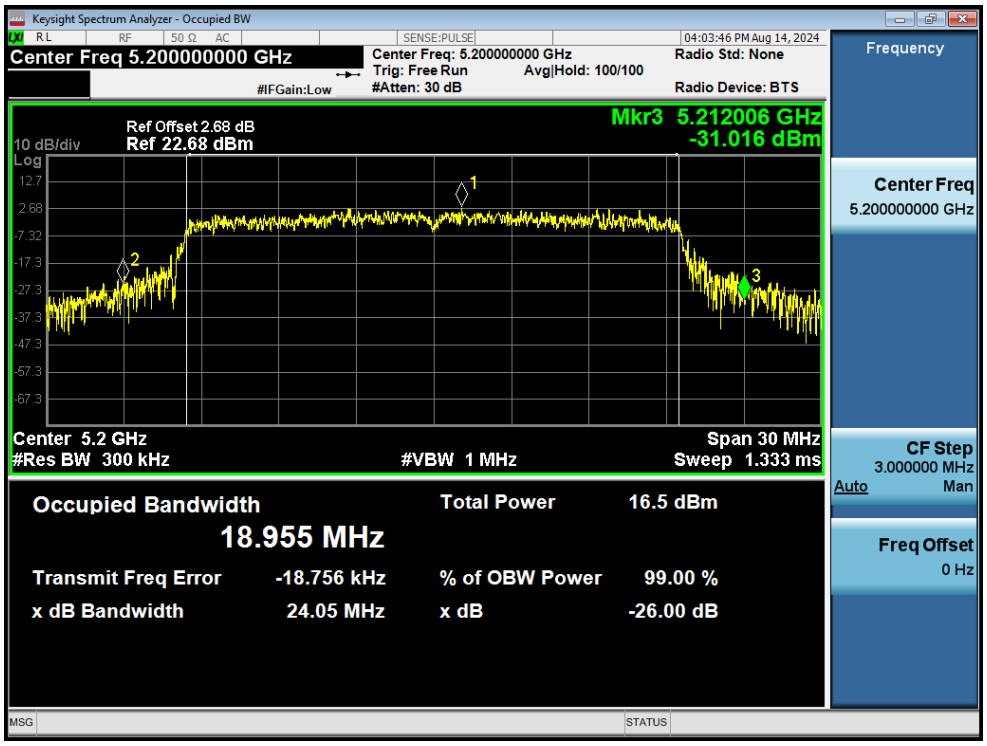
-26dB Bandwidth NVNT ac40 5190MHz Ant1

-26dB Bandwidth NVNT ac40 5230MHz Ant1

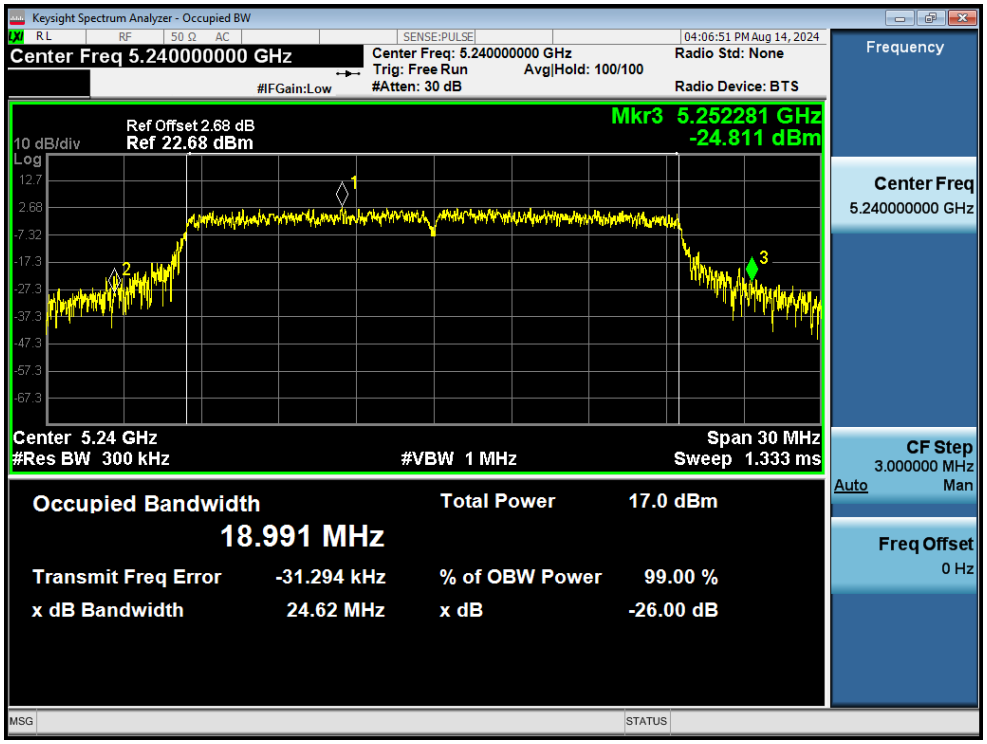
-26dB Bandwidth NVNT ac80 5210MHz Ant1



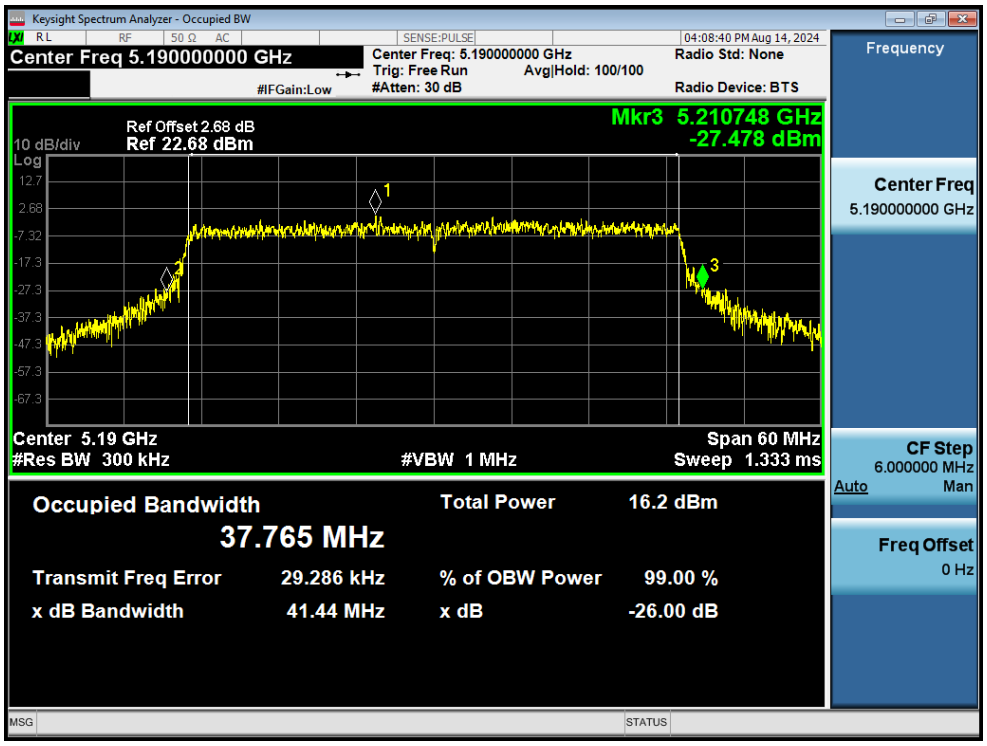
-26dB Bandwidth NVNT ax20 5180MHz Ant1



-26dB Bandwidth NVNT ax20 5200MHz Ant1

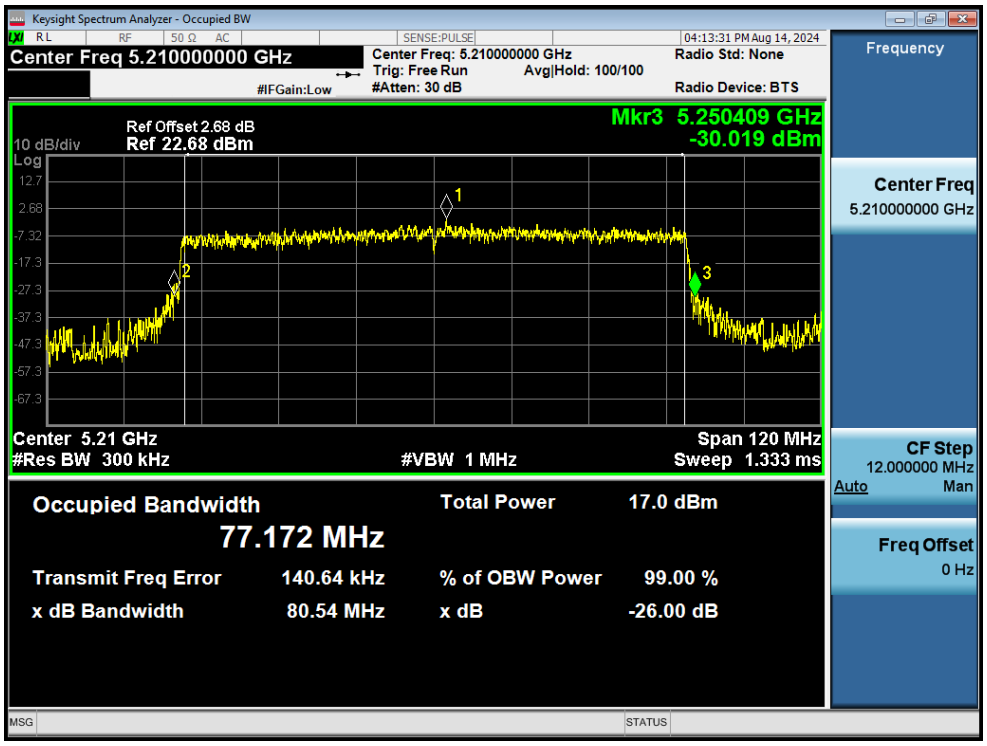


-26dB Bandwidth NVNT ax20 5240MHz Ant1



-26dB Bandwidth NVNT ax40 5190MHz Ant1

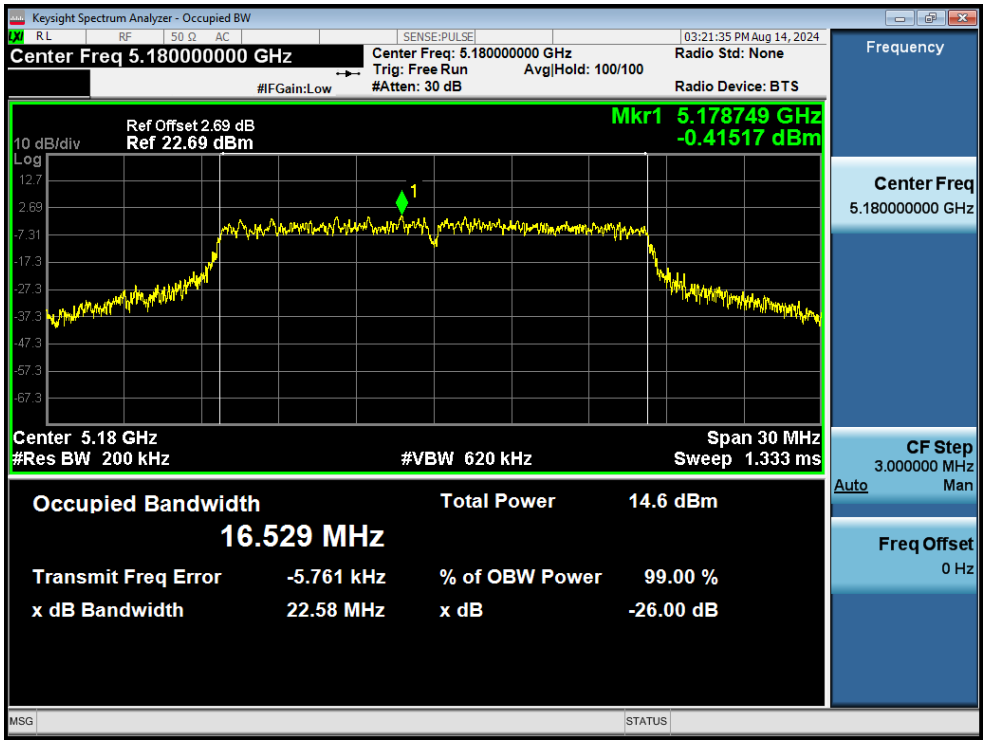
-26dB Bandwidth NVNT ax40 5230MHz Ant1



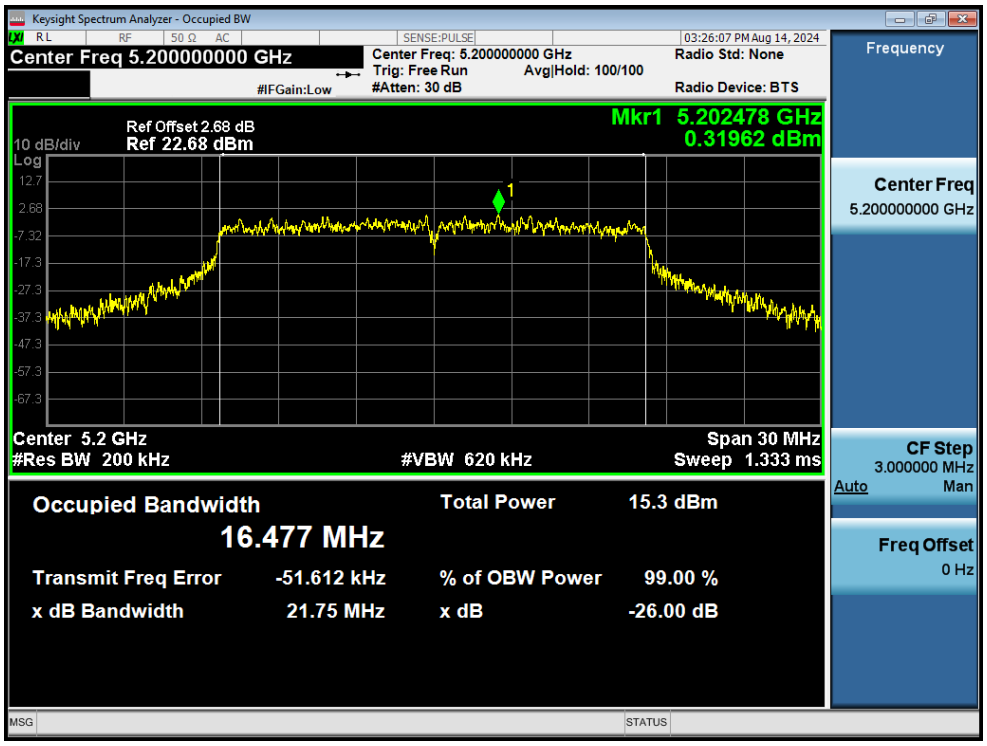
-26dB Bandwidth NVNT ax80 5210MHz Ant1

4. Occupied Channel Bandwidth

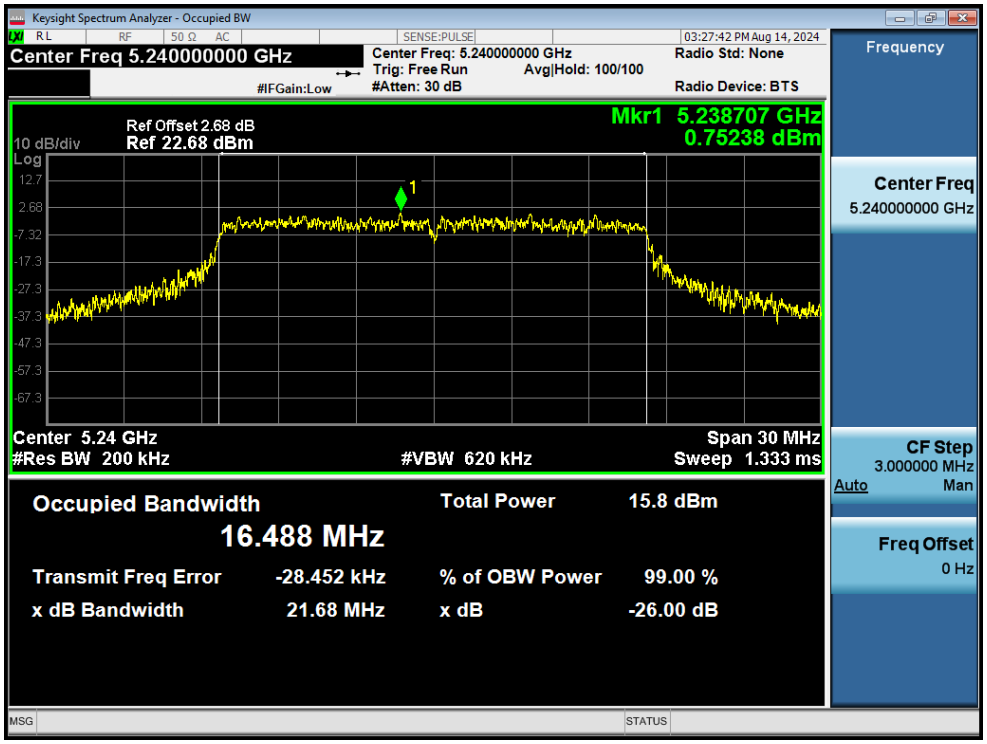
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.529
NVNT	a	5200	Ant1	16.477
NVNT	a	5240	Ant1	16.488
NVNT	n20	5180	Ant1	17.751
NVNT	n20	5200	Ant1	17.756
NVNT	n20	5240	Ant1	17.752
NVNT	n40	5190	Ant1	36.346
NVNT	n40	5230	Ant1	36.319
NVNT	ac20	5180	Ant1	17.733
NVNT	ac20	5200	Ant1	17.684
NVNT	ac20	5240	Ant1	17.752
NVNT	ac40	5190	Ant1	36.283
NVNT	ac40	5230	Ant1	36.305
NVNT	ac80	5210	Ant1	75.67
NVNT	ax20	5180	Ant1	18.973
NVNT	ax20	5200	Ant1	18.947
NVNT	ax20	5240	Ant1	18.936
NVNT	ax40	5190	Ant1	37.861
NVNT	ax40	5230	Ant1	37.79
NVNT	ax80	5210	Ant1	77.095



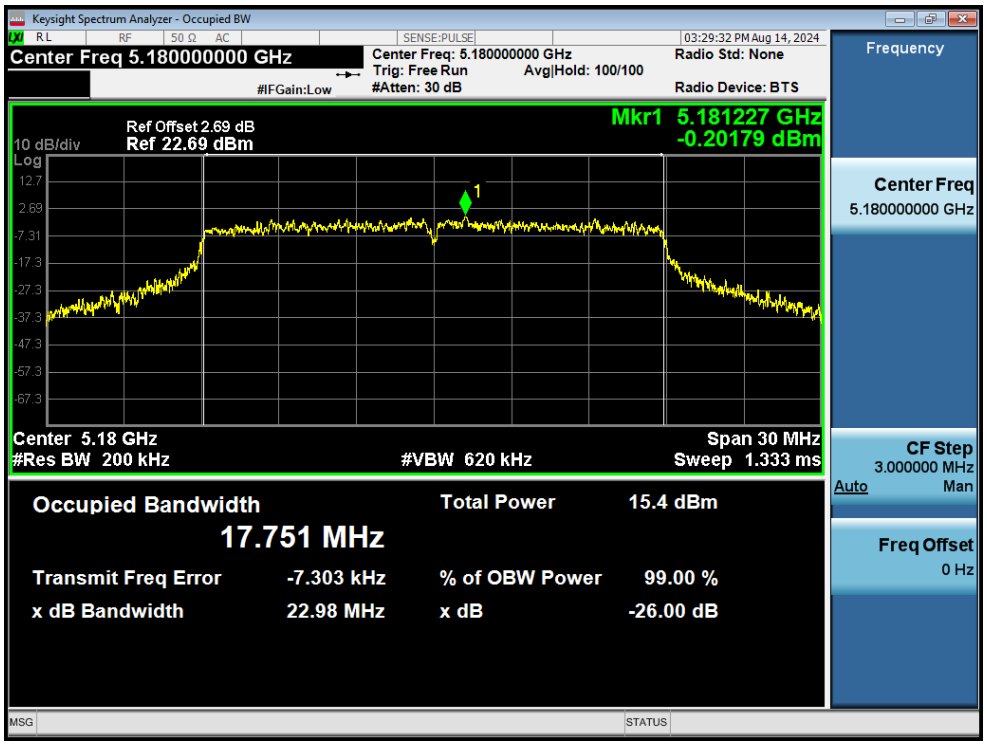
OBW NVNT a 5180MHz Ant1



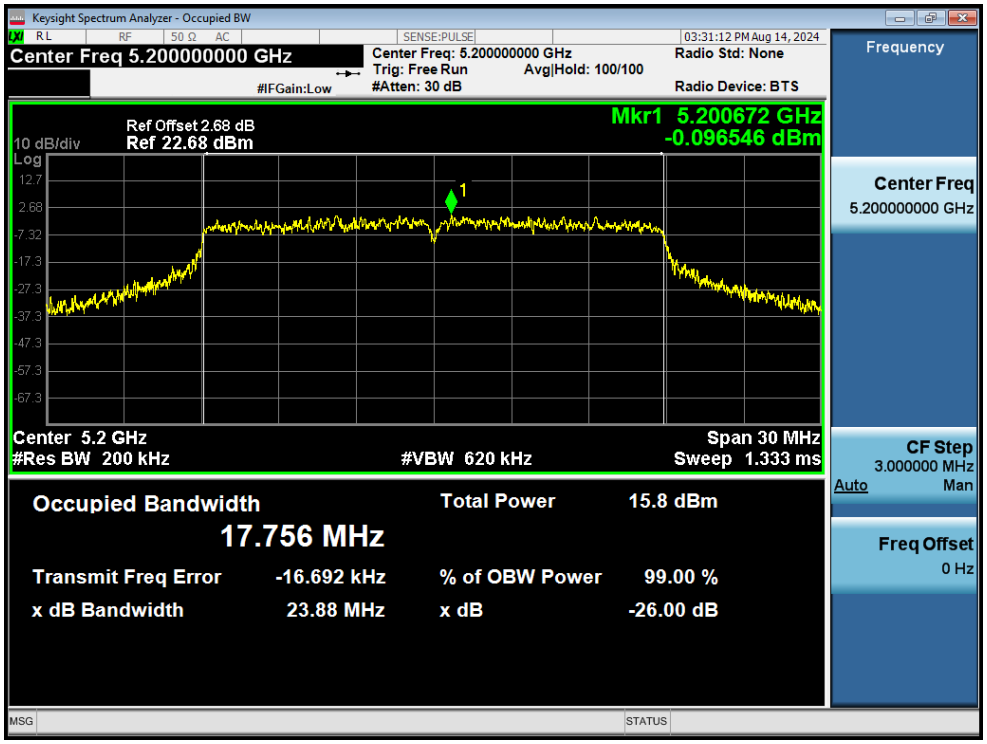
OBW NVNT a 5200MHz Ant1



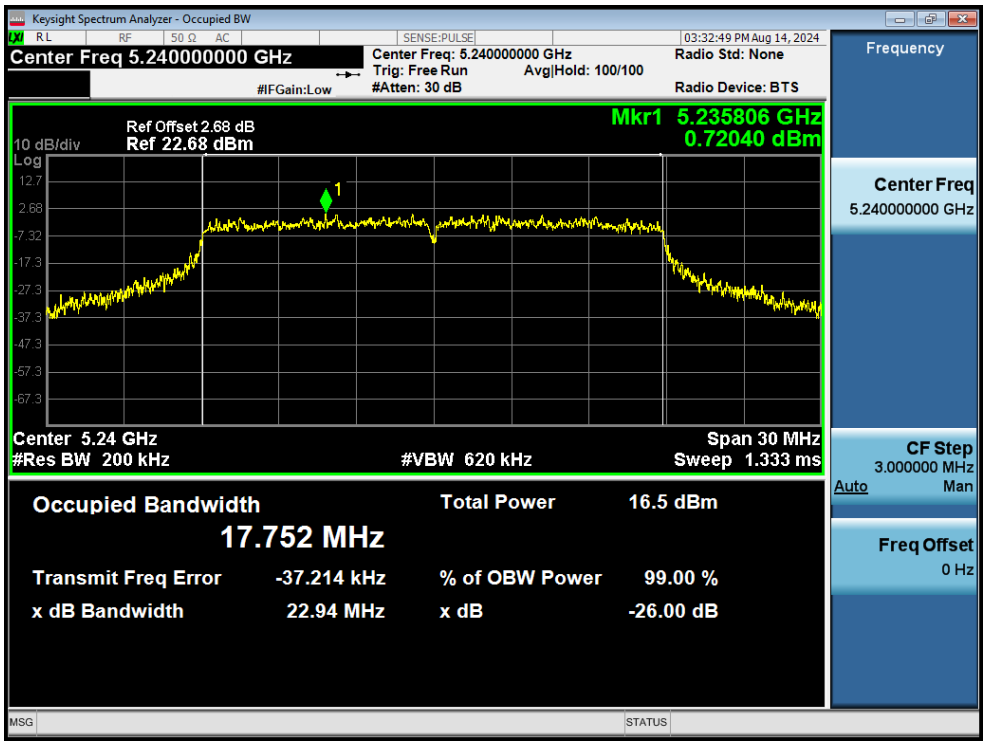
OBW NVNT a 5240MHz Ant1



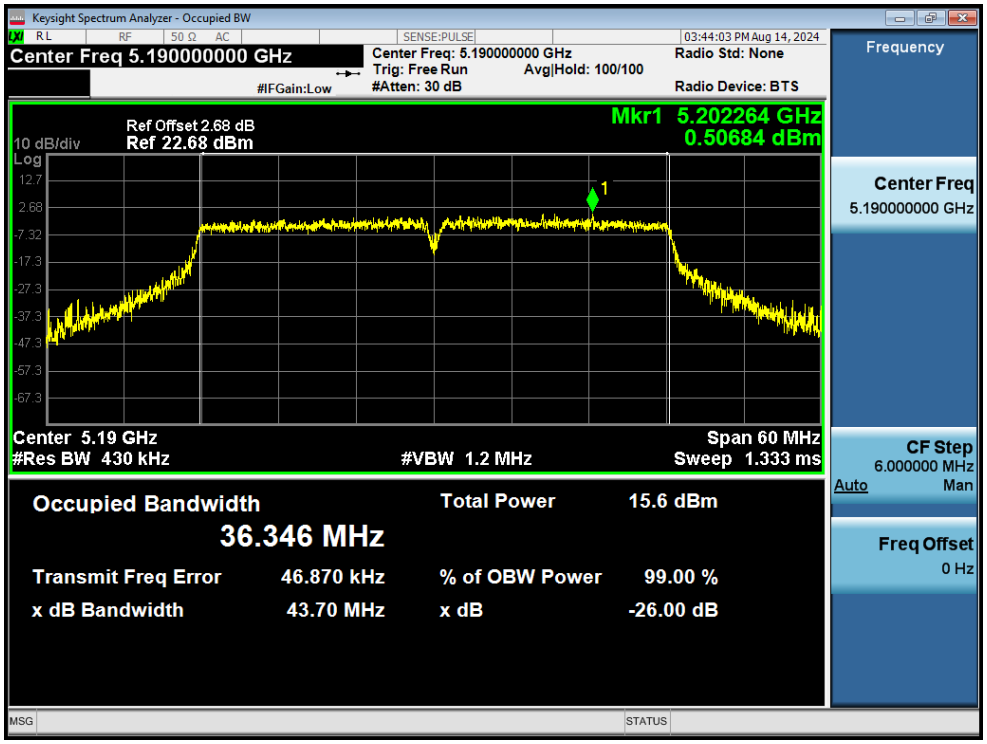
OBW NVNT n20 5180MHz Ant1



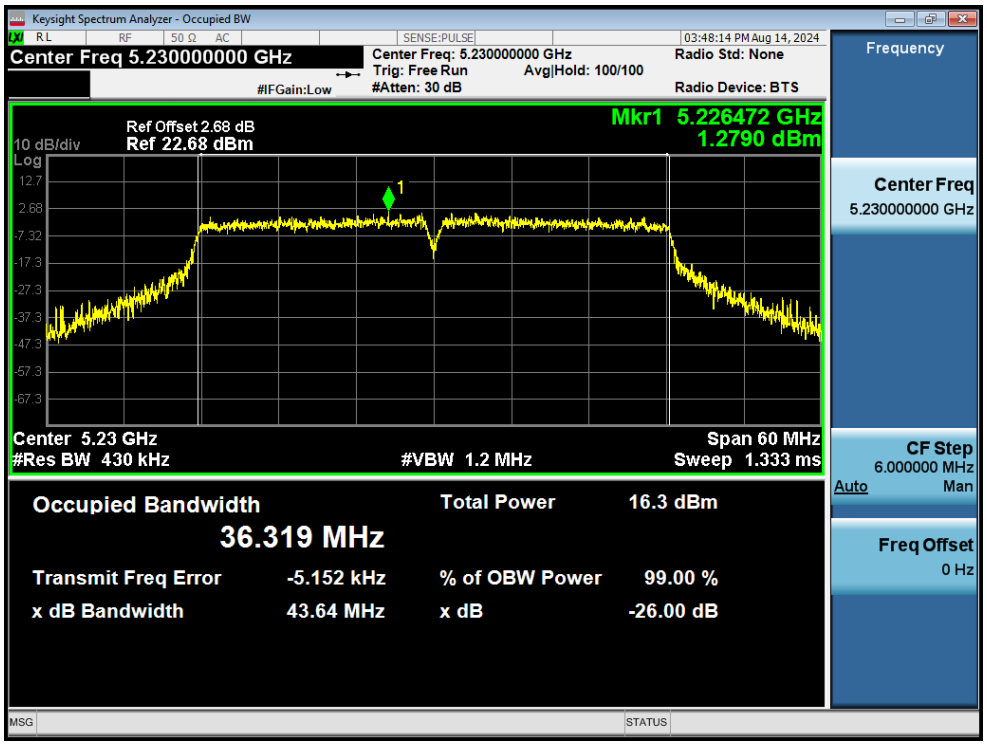
OBW NVNT n20 5200MHz Ant1



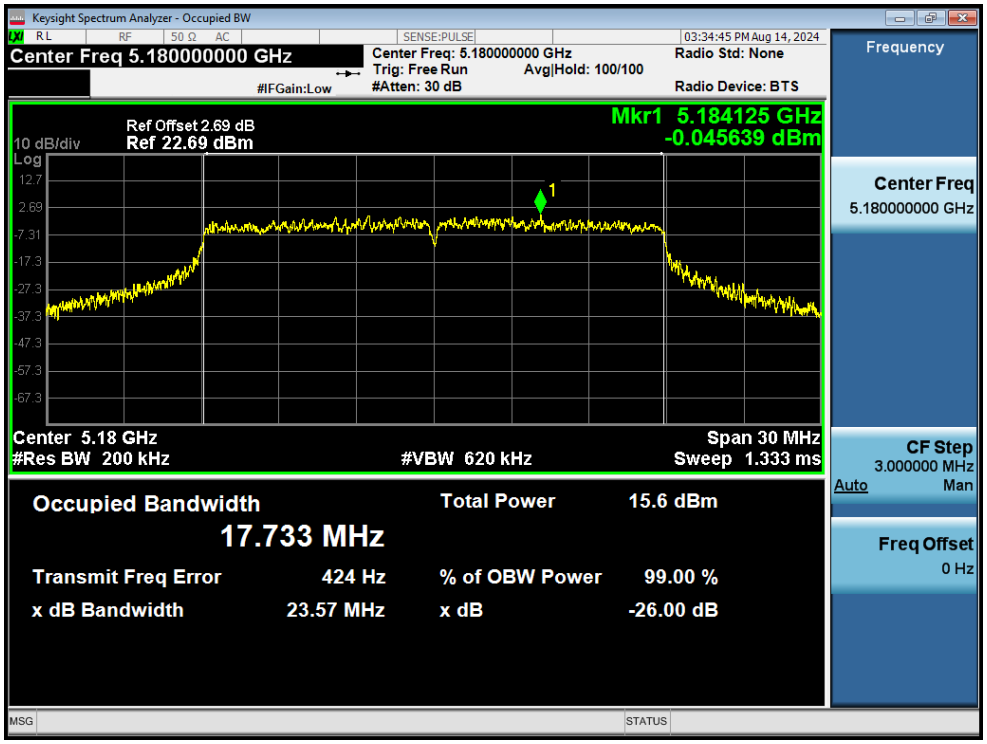
OBW NVNT n20 5240MHz Ant1



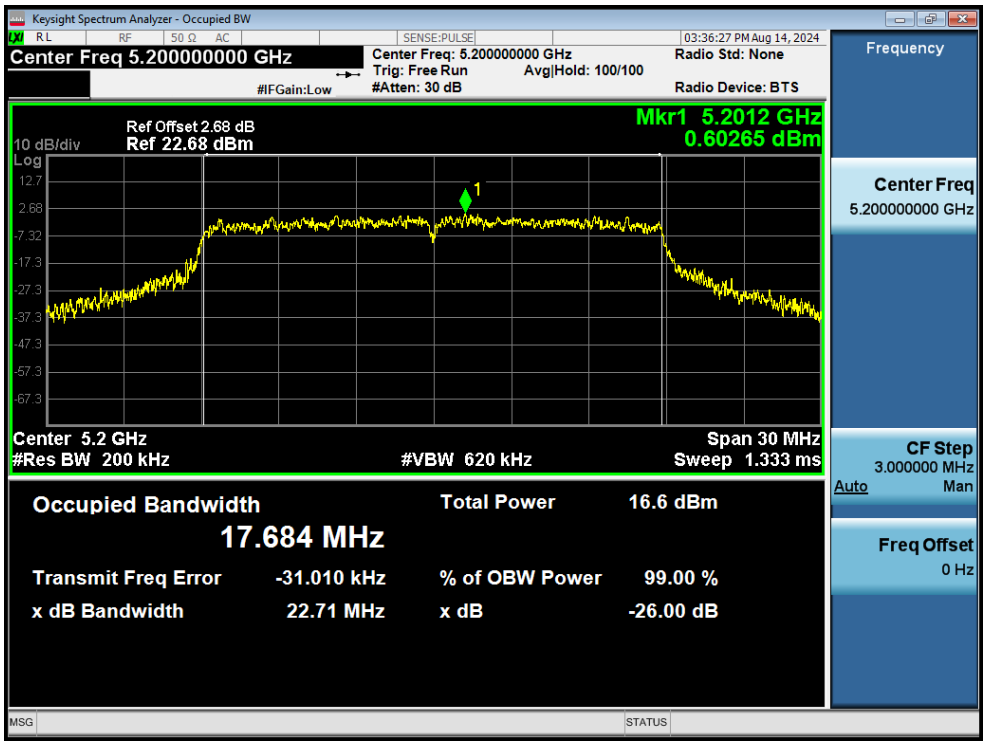
OBW NVNT n40 5190MHz Ant1



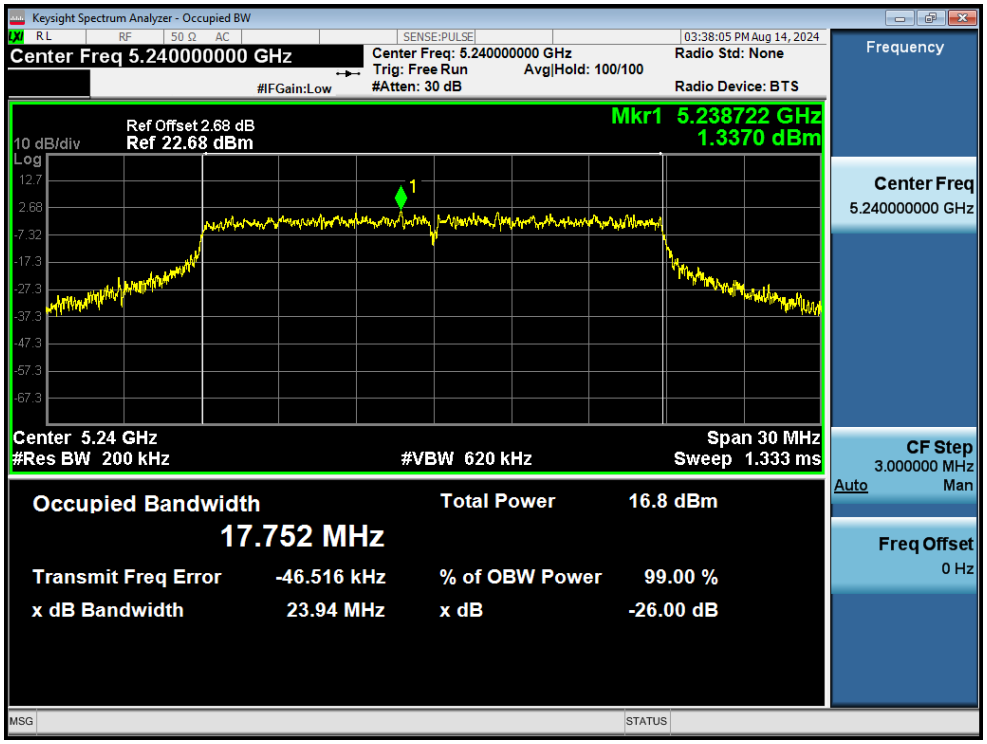
OBW NVNT n40 5230MHz Ant1



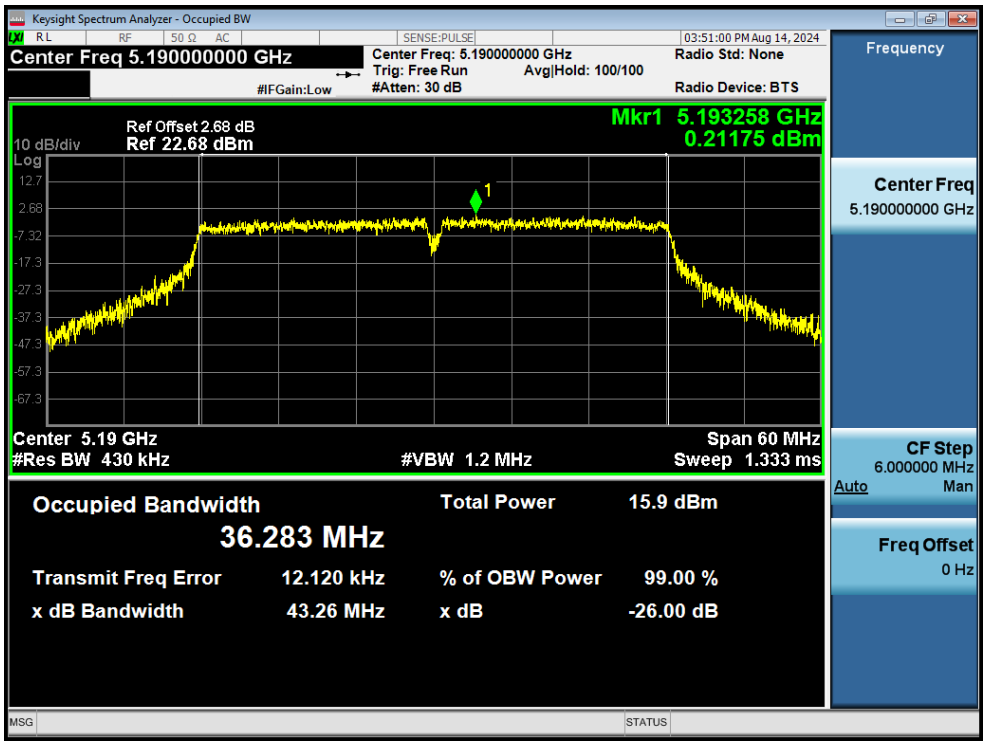
OBW NVNT ac20 5180MHz Ant1



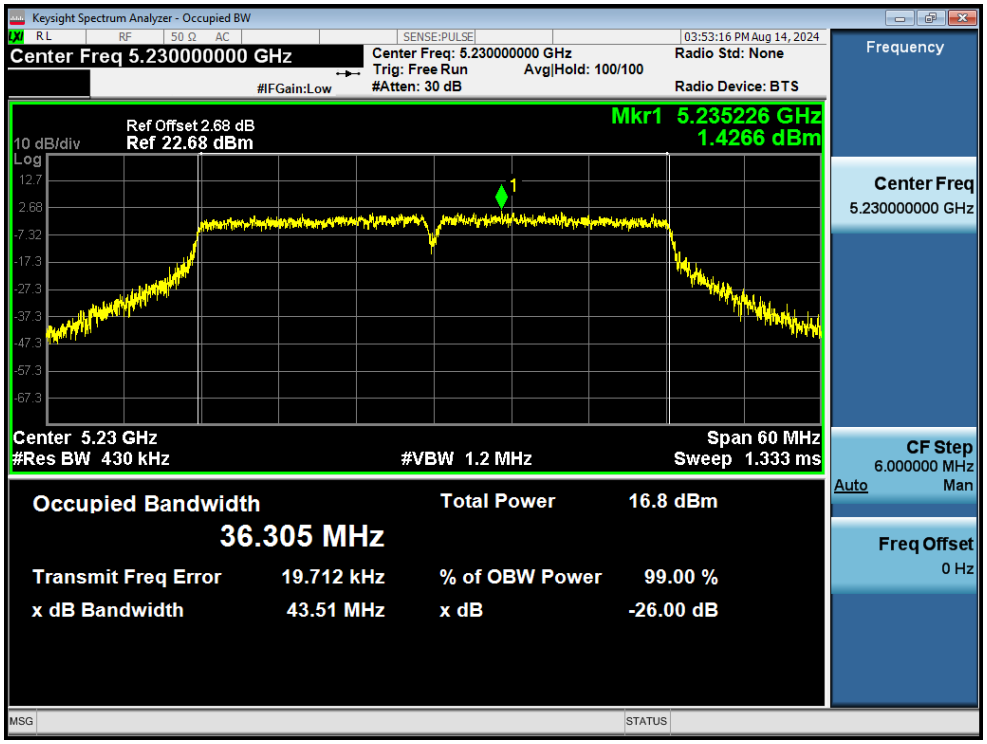
OBW NVNT ac20 5200MHz Ant1



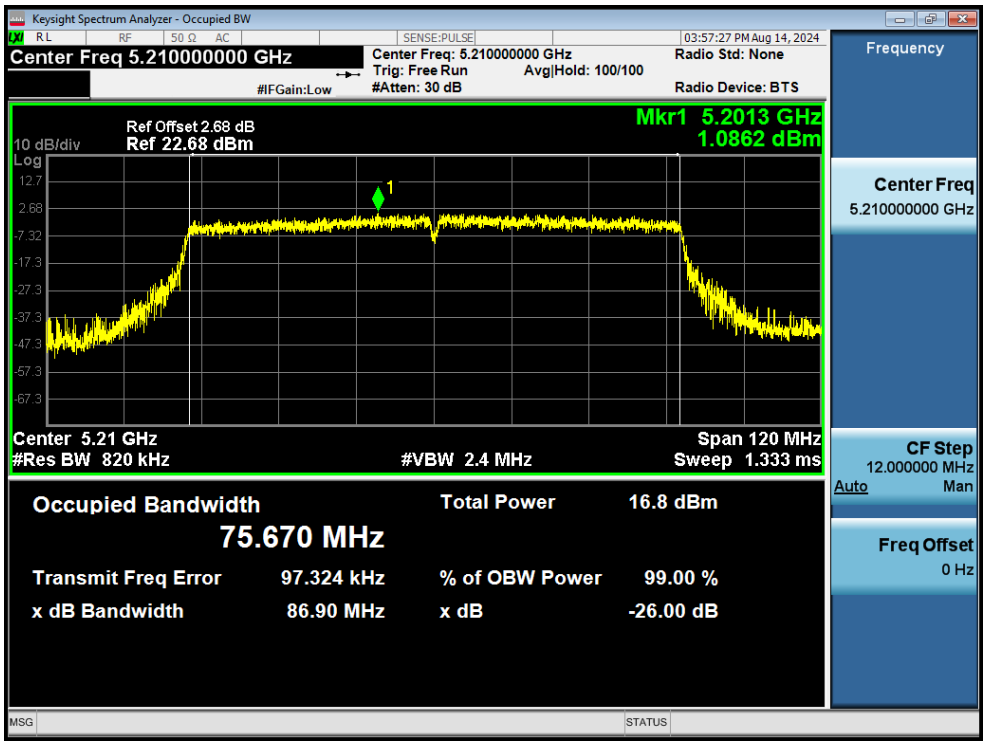
OBW NVNT ac20 5240MHz Ant1



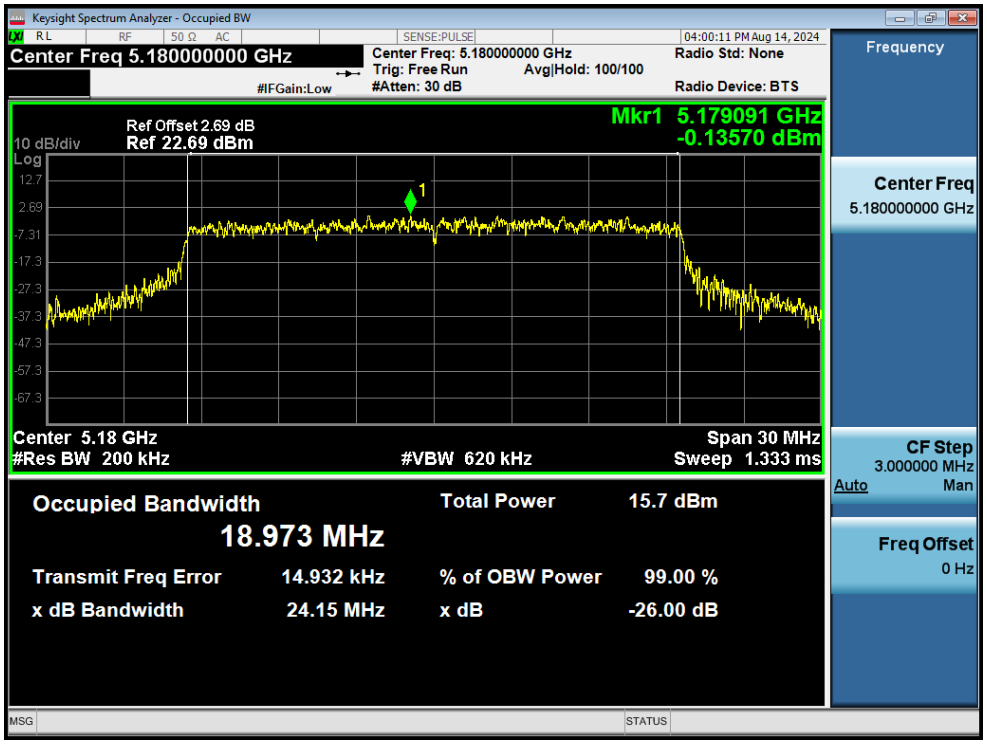
OBW NVNT ac40 5190MHz Ant1



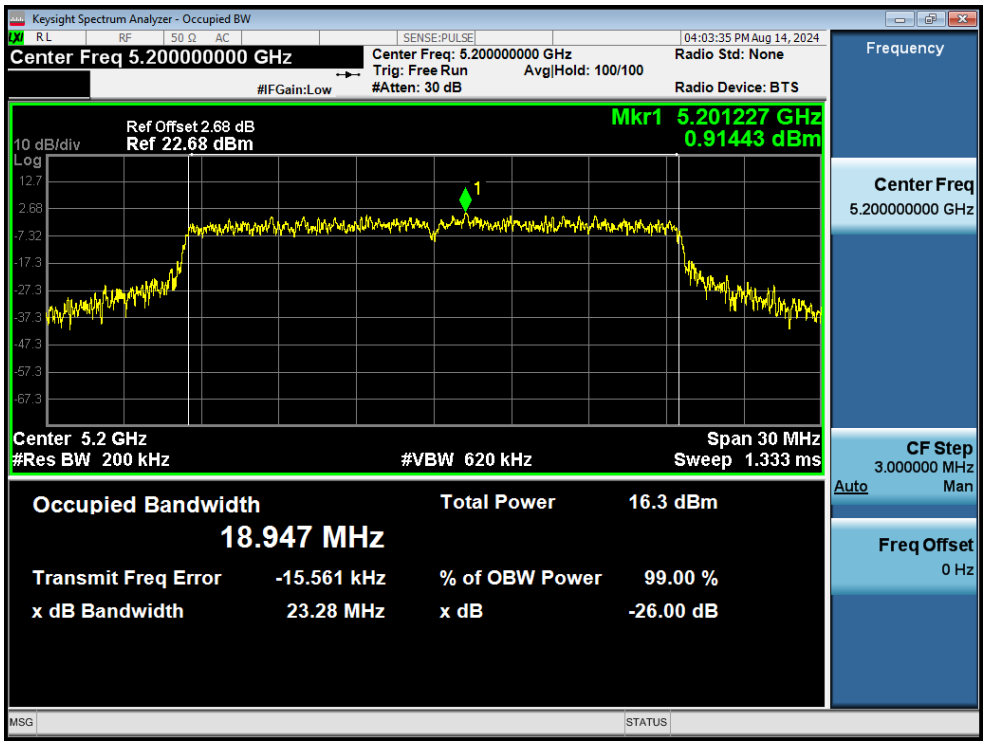
OBW NVNT ac40 5230MHz Ant1



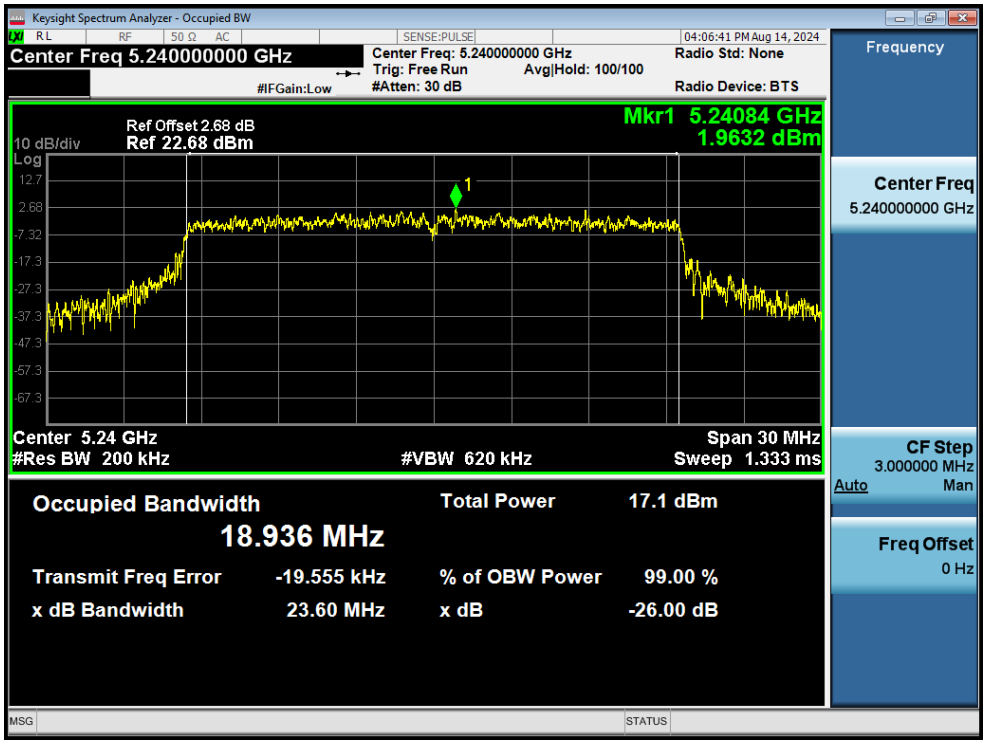
OBW NVNT ac80 5210MHz Ant1



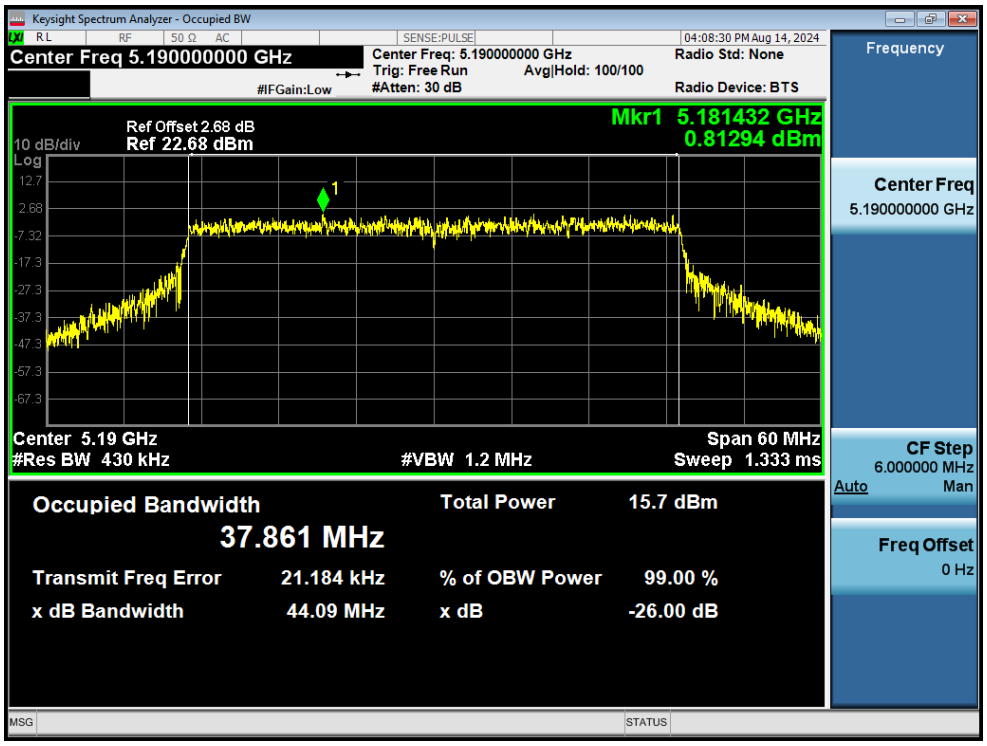
OBW NVNT ax20 5180MHz Ant1



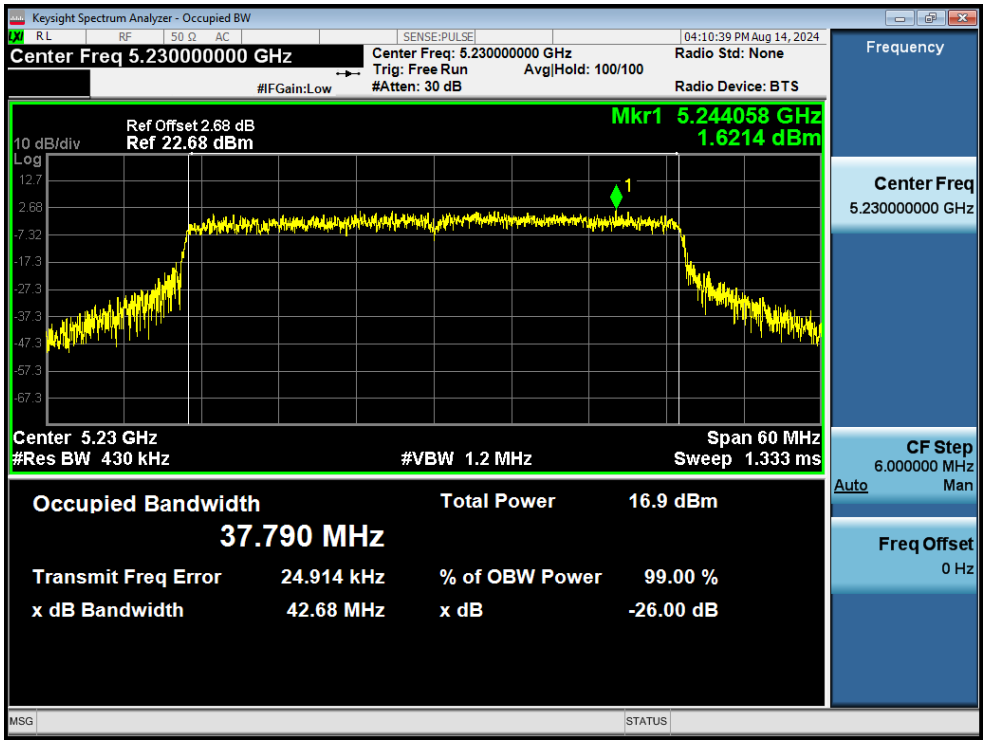
OBW NVNT ax20 5200MHz Ant1



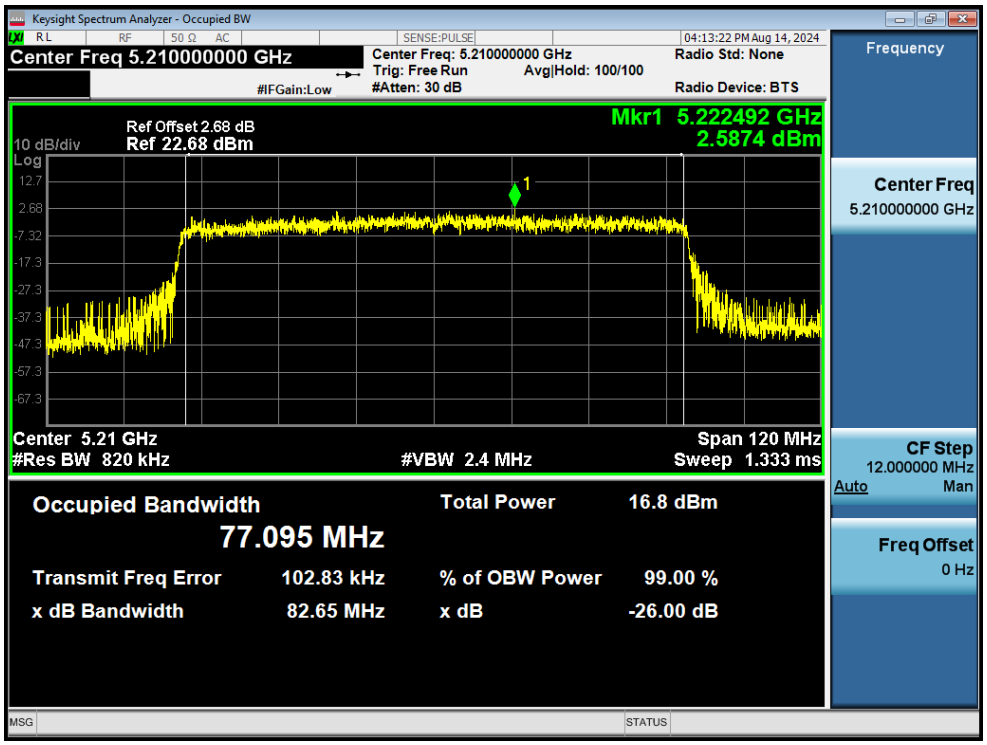
OBW NVNT ax20 5240MHz Ant1



OBW NVNT ax40 5190MHz Ant1



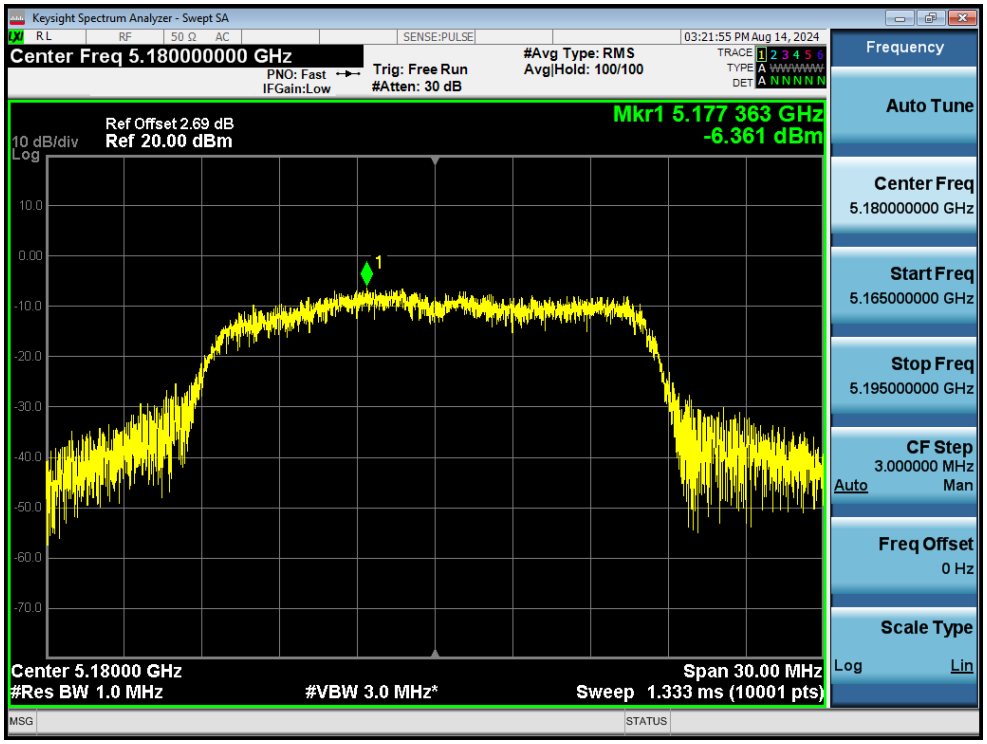
OBW NVNT ax40 5230MHz Ant1



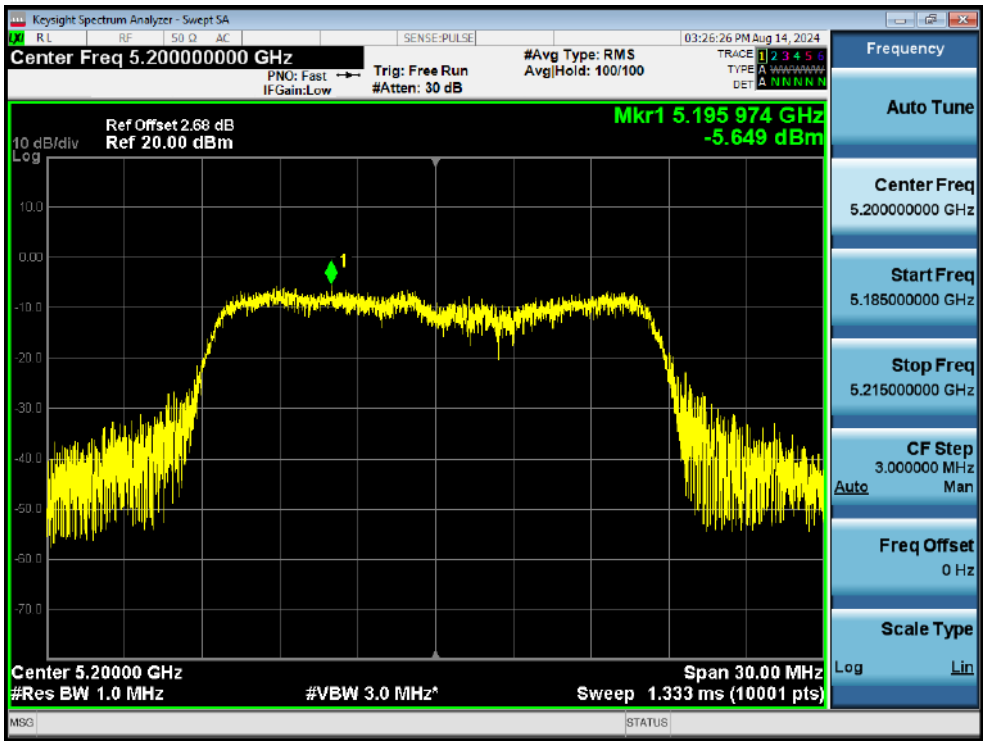
OBW NVNT ax80 5210MHz Ant1

5. Maximum Power Spectral Density Level

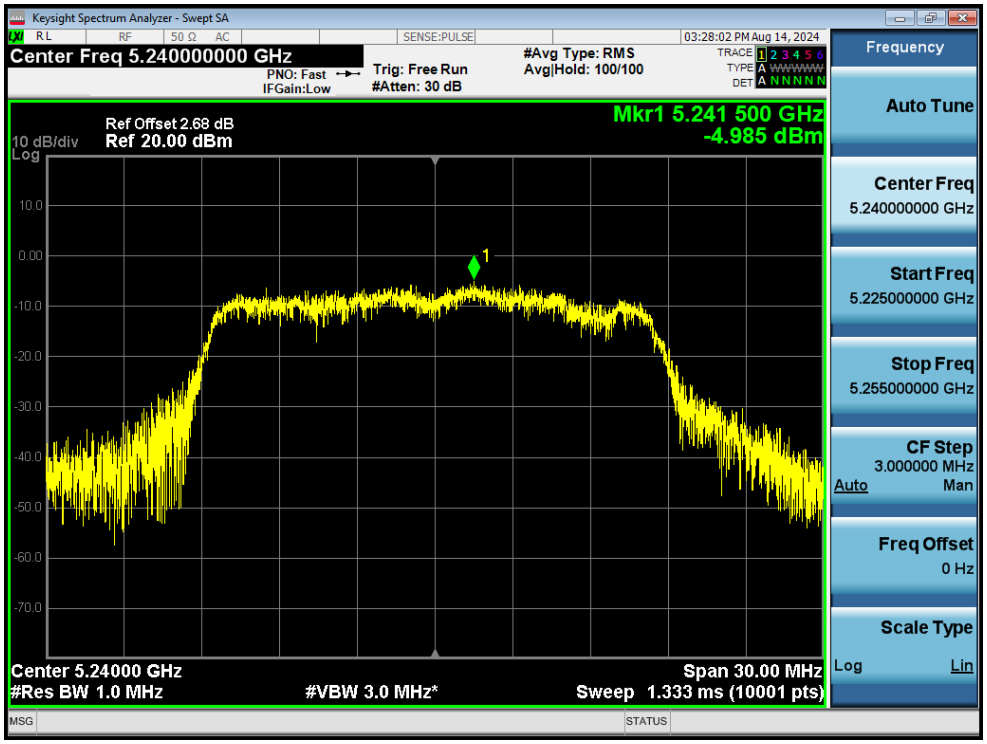
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-6.36	8.31	1.95	11	Pass
NVNT	a	5200	Ant1	-5.65	8.33	2.68	11	Pass
NVNT	a	5240	Ant1	-4.99	8.29	3.3	11	Pass
NVNT	n20	5180	Ant1	-4.12	4.59	0.47	11	Pass
NVNT	n20	5200	Ant1	-2.58	4.57	1.99	11	Pass
NVNT	n20	5240	Ant1	-3.58	4.59	1.01	11	Pass
NVNT	n40	5190	Ant1	-8.15	4.68	-3.47	11	Pass
NVNT	n40	5230	Ant1	-6.7	4.67	-2.03	11	Pass
NVNT	ac20	5180	Ant1	-3.58	5.05	1.47	11	Pass
NVNT	ac20	5200	Ant1	-3.61	5.04	1.43	11	Pass
NVNT	ac20	5240	Ant1	-3.32	5.05	1.73	11	Pass
NVNT	ac40	5190	Ant1	-7.4	5.42	-1.98	11	Pass
NVNT	ac40	5230	Ant1	-6.48	5.42	-1.06	11	Pass
NVNT	ac80	5210	Ant1	-9.93	5.66	-4.27	11	Pass
NVNT	ax20	5180	Ant1	-4	6.56	2.56	11	Pass
NVNT	ax20	5200	Ant1	-4.25	6.56	2.31	11	Pass
NVNT	ax20	5240	Ant1	-3.7	6.56	2.86	11	Pass
NVNT	ax40	5190	Ant1	-7.72	6.56	-1.16	11	Pass
NVNT	ax40	5230	Ant1	-7.31	6.57	-0.73	11	Pass
NVNT	ax80	5210	Ant1	-10.15	6.71	-3.44	11	Pass



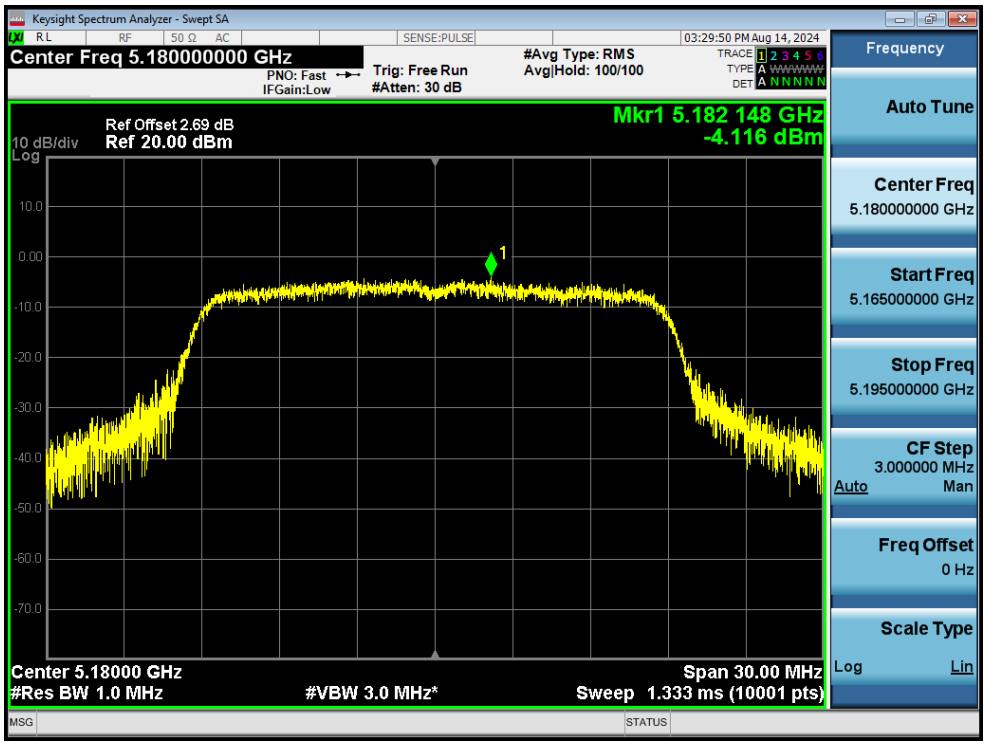
PSD NVNT a 5180MHz Ant1



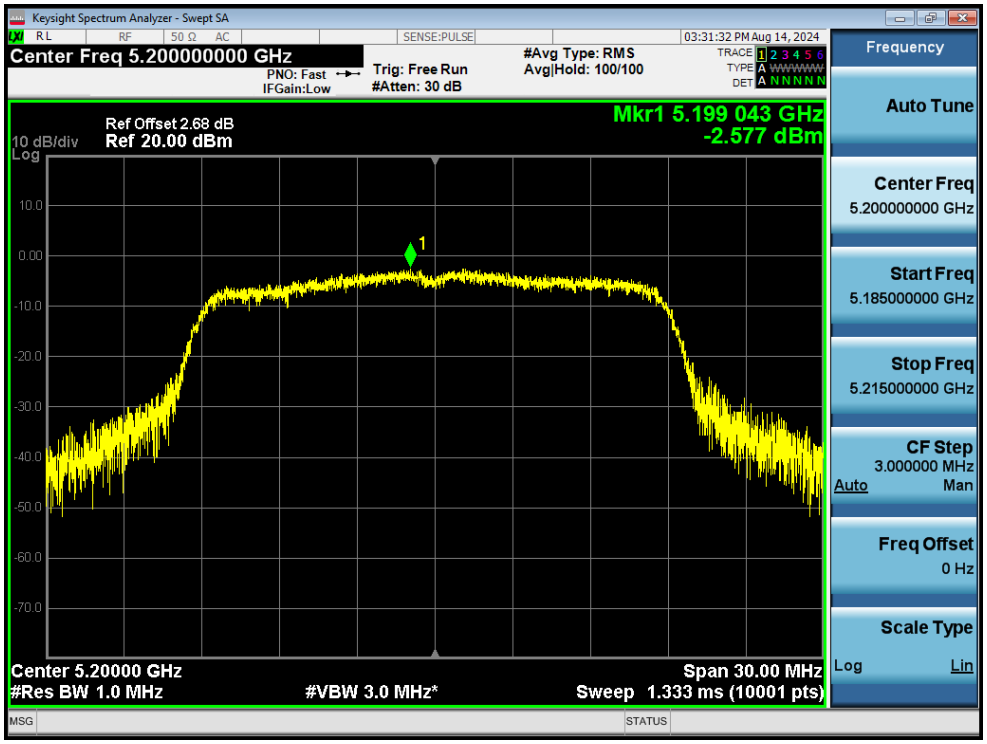
PSD NVNT a 5200MHz Ant1



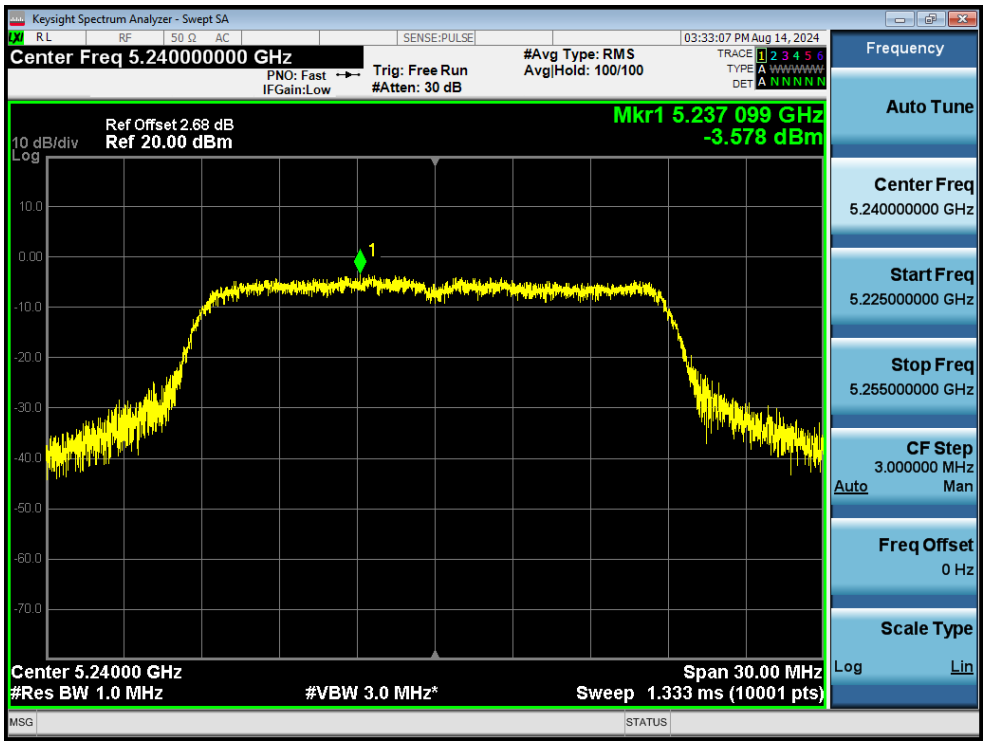
PSD NVNT a 5240MHz Ant1



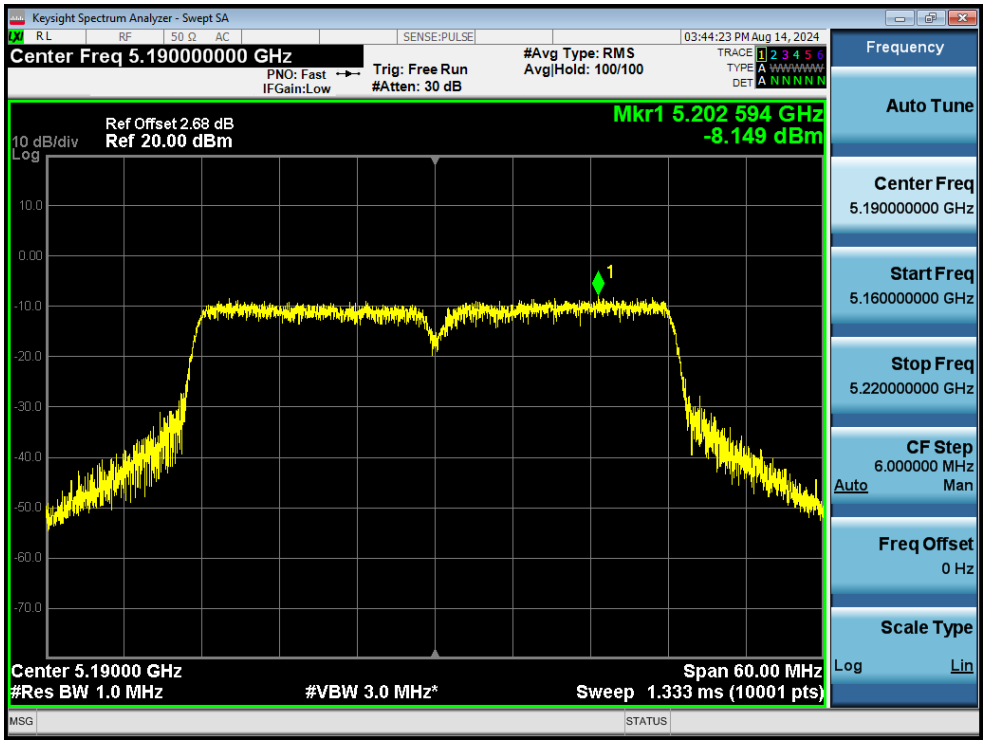
PSD NVNT n20 5180MHz Ant1



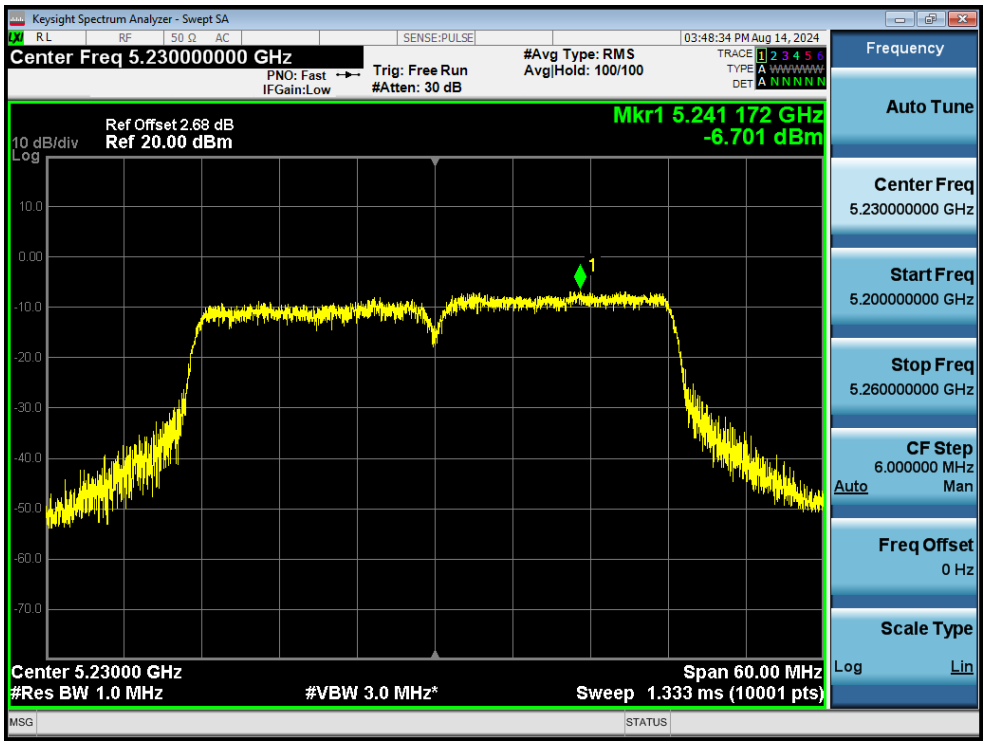
PSD NVNT n20 5200MHz Ant1



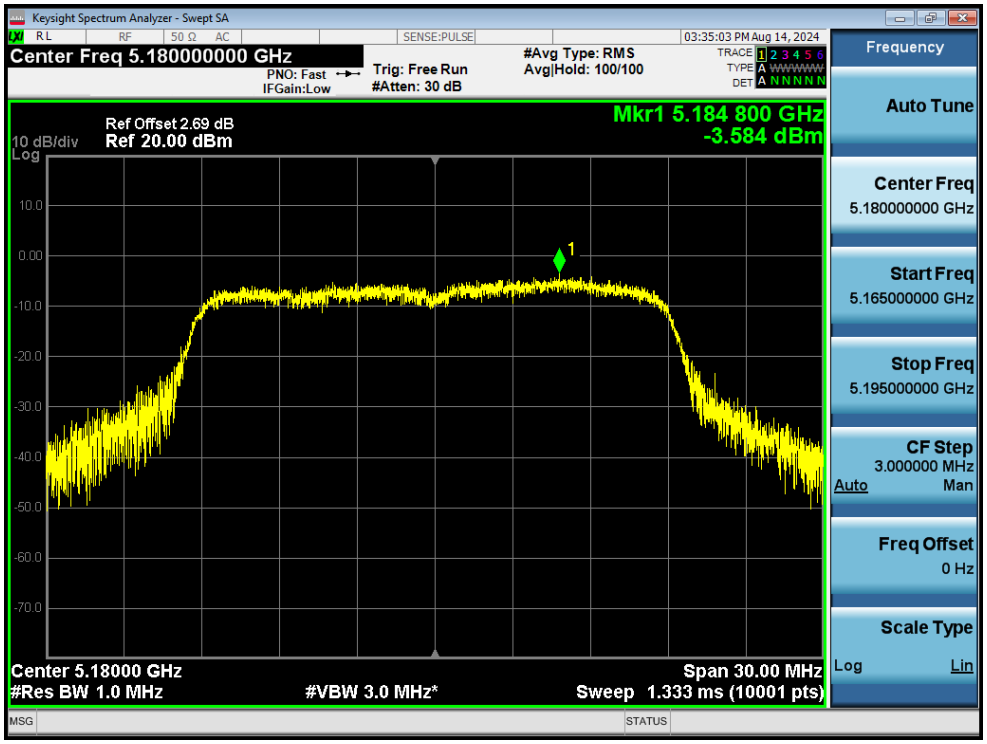
PSD NVNT n20 5240MHz Ant1



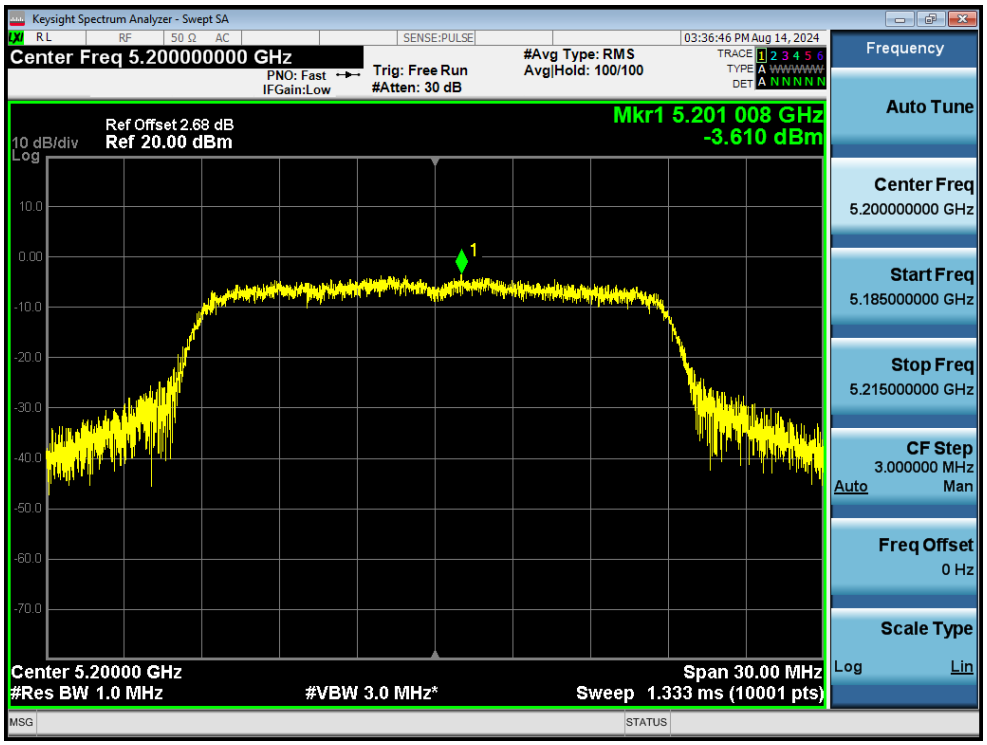
PSD NVNT n40 5190MHz Ant1



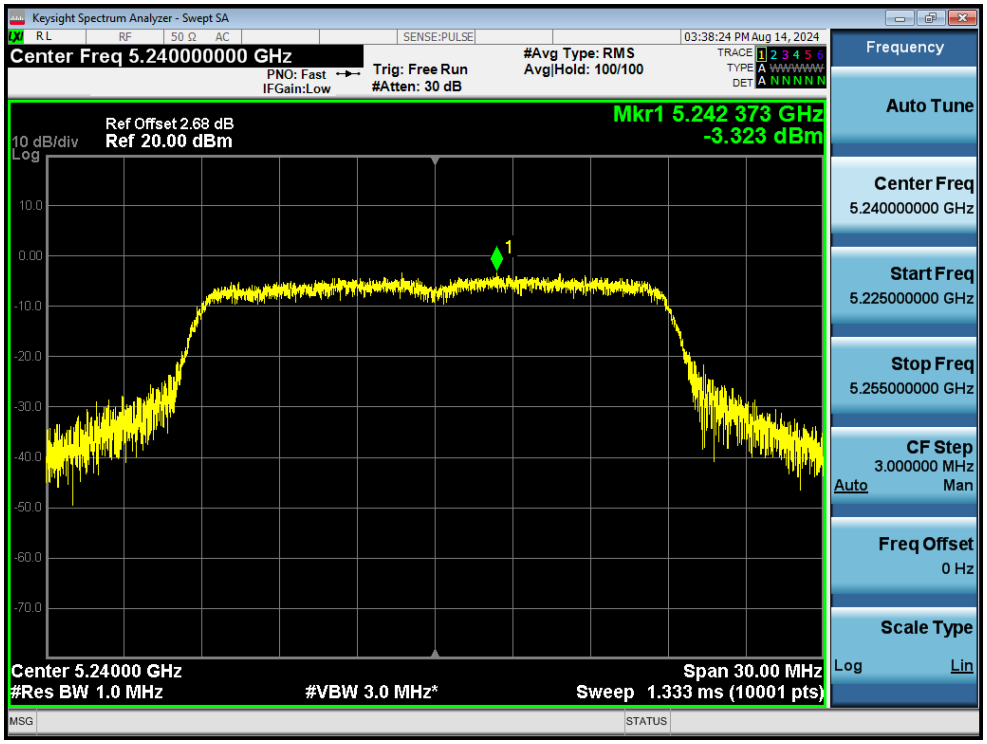
PSD NVNT n40 5230MHz Ant1



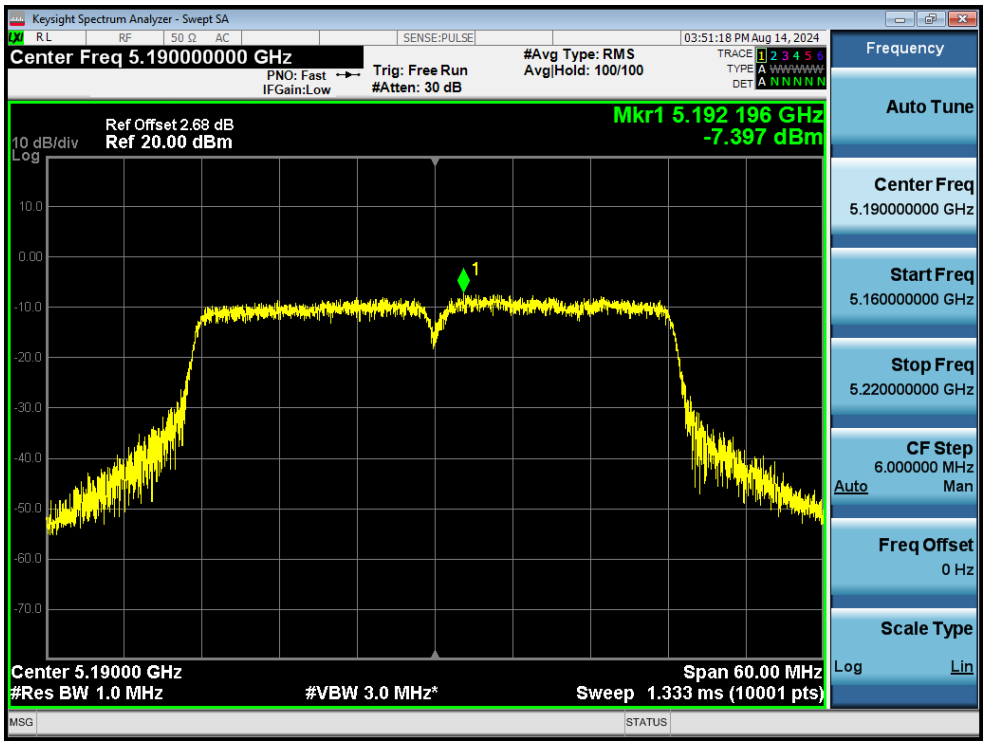
PSD NVNT ac20 5180MHz Ant1



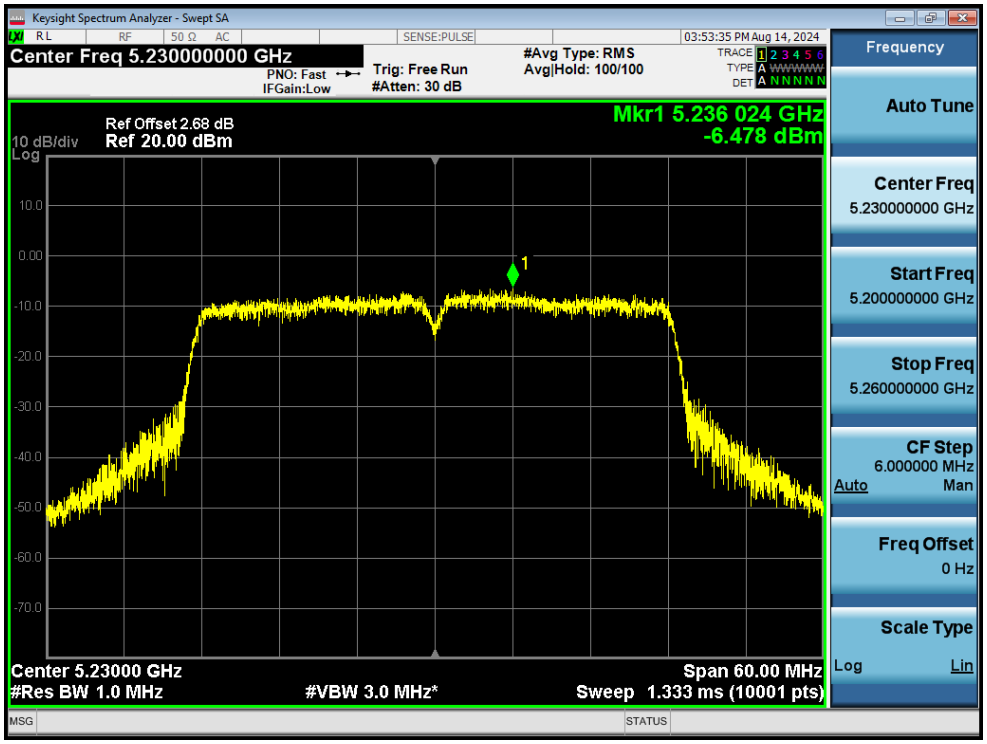
PSD NVNT ac20 5200MHz Ant1



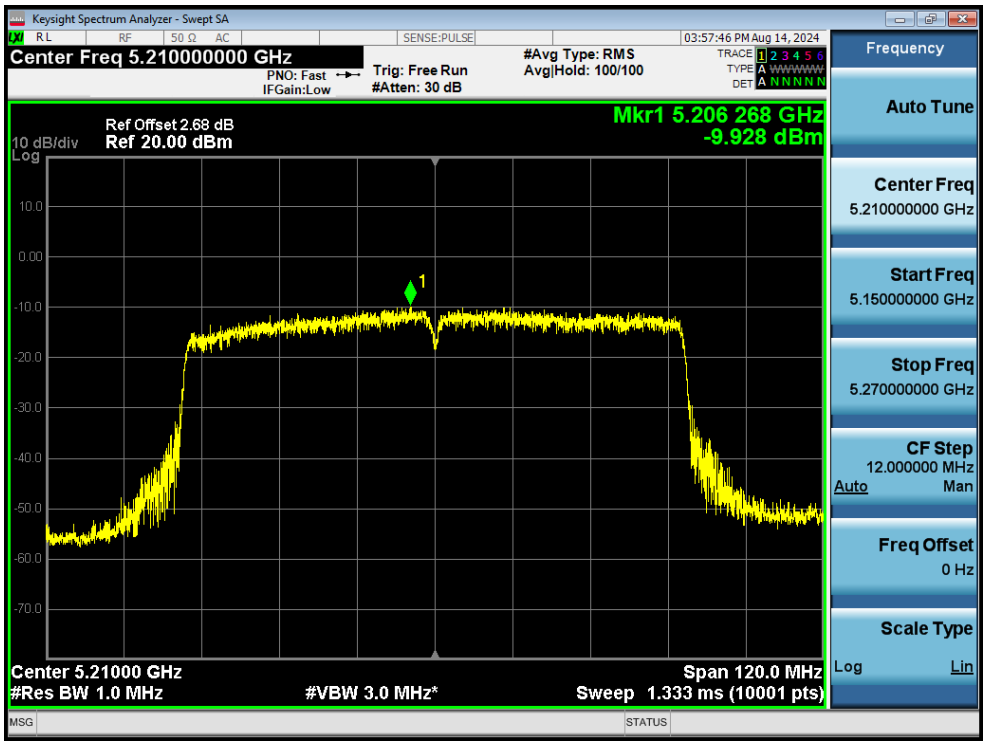
PSD NVNT ac20 5240MHz Ant1



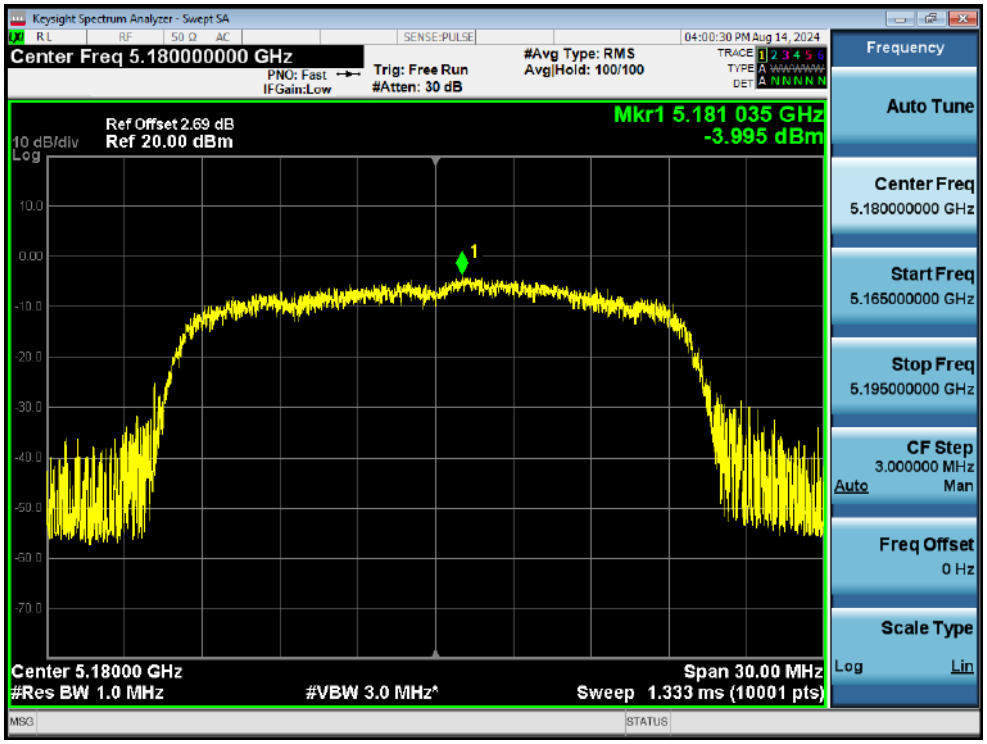
PSD NVNT ac40 5190MHz Ant1



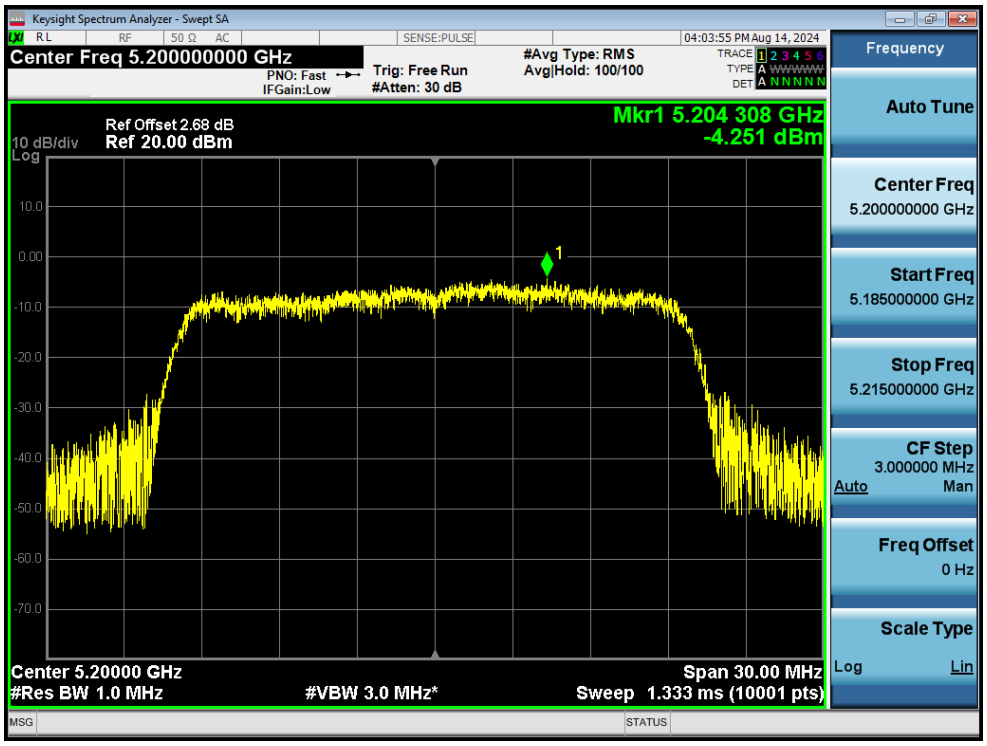
PSD NVNT ac40 5230MHz Ant1



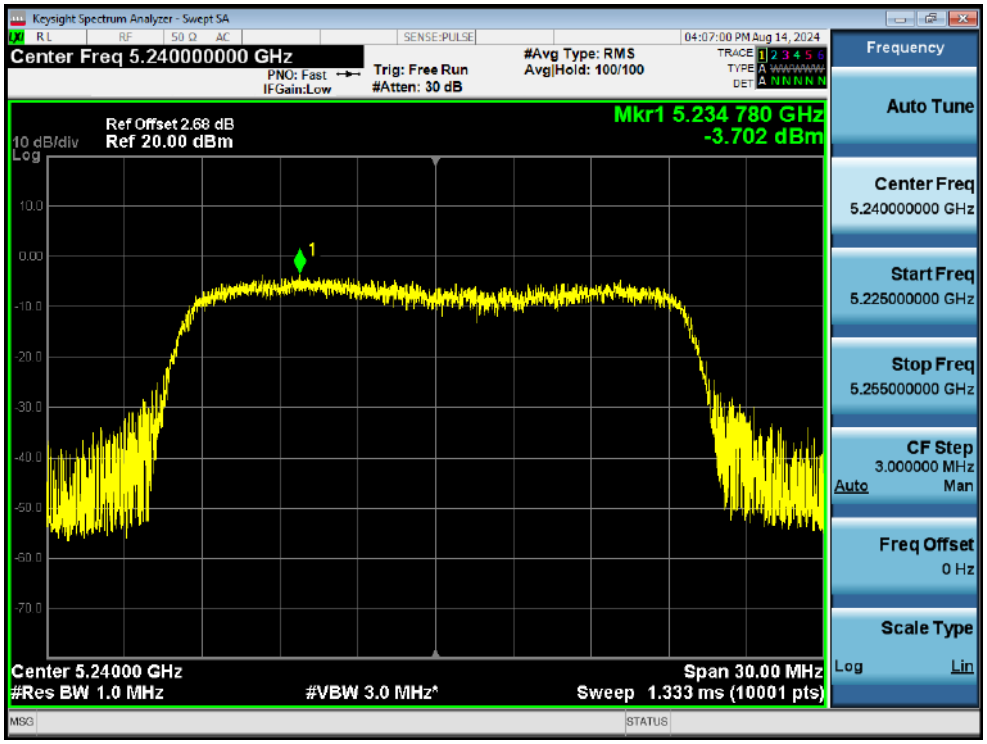
PSD NVNT ac80 5210MHz Ant1



PSD NVNT ax20 5180MHz Ant1

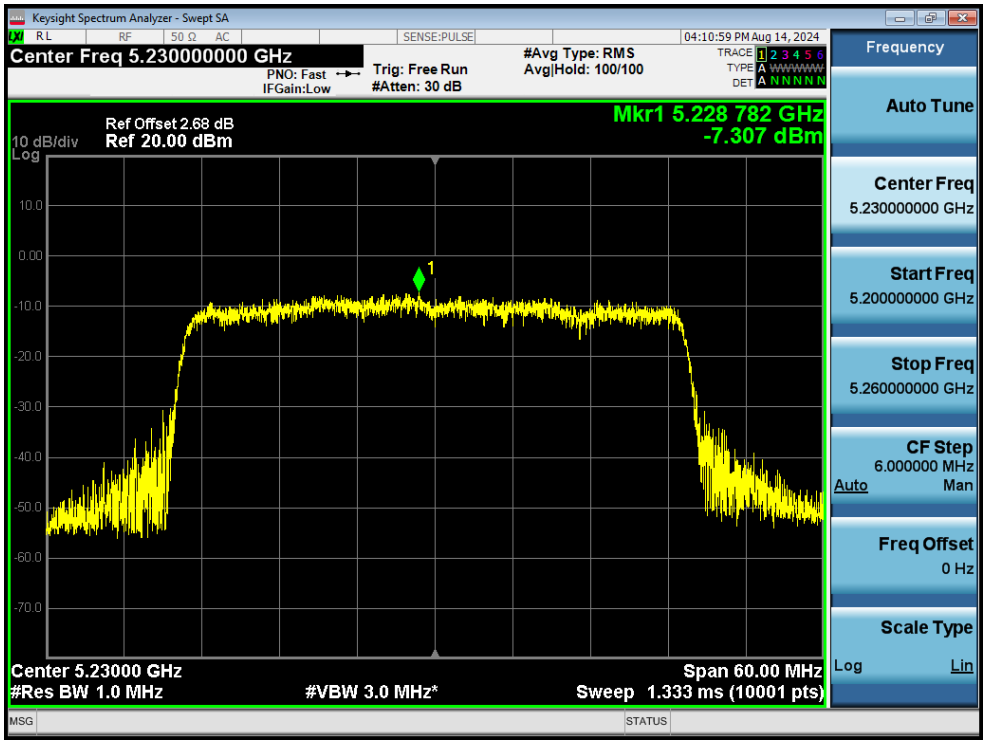


PSD NVNT ax20 5200MHz Ant1



PSD NVNT ax20 5240MHz Ant1

PSD NVNT ax40 5190MHz Ant1



PSD NVNT ax40 5230MHz Ant1

PSD NVNT ax80 5210MHz Ant1

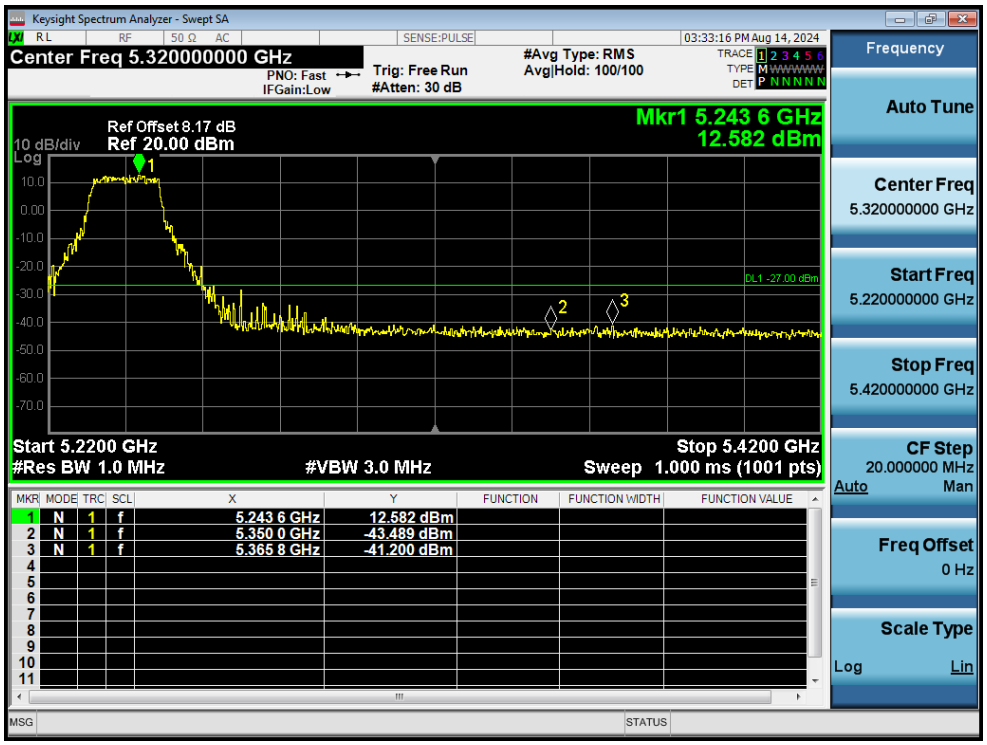
6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-34.93	-27	Pass
NVNT	a	5240	Ant1	-41.34	-27	Pass
NVNT	n20	5180	Ant1	-30.41	-27	Pass
NVNT	n20	5240	Ant1	-41.19	-27	Pass
NVNT	n40	5190	Ant1	-33.67	-27	Pass
NVNT	n40	5230	Ant1	-41.92	-27	Pass
NVNT	ac20	5180	Ant1	-40.27	-27	Pass
NVNT	ac20	5240	Ant1	-41.22	-27	Pass
NVNT	ac40	5190	Ant1	-35.89	-27	Pass
NVNT	ac40	5230	Ant1	-41.04	-27	Pass
NVNT	ac80	5210	Ant1	-40.84	-27	Pass
NVNT	ac80	5210	Ant1	-29.56	-27	Pass
NVNT	ax20	5180	Ant1	-39.73	-27	Pass
NVNT	ax20	5240	Ant1	-41.04	-27	Pass
NVNT	ax40	5190	Ant1	-32.39	-27	Pass
NVNT	ax40	5230	Ant1	-41.25	-27	Pass
NVNT	ax80	5210	Ant1	-28.65	-27	Pass

Band Edge NVNT a 5180MHz Low Ant1

Band Edge NVNT a 5240MHz High Ant1

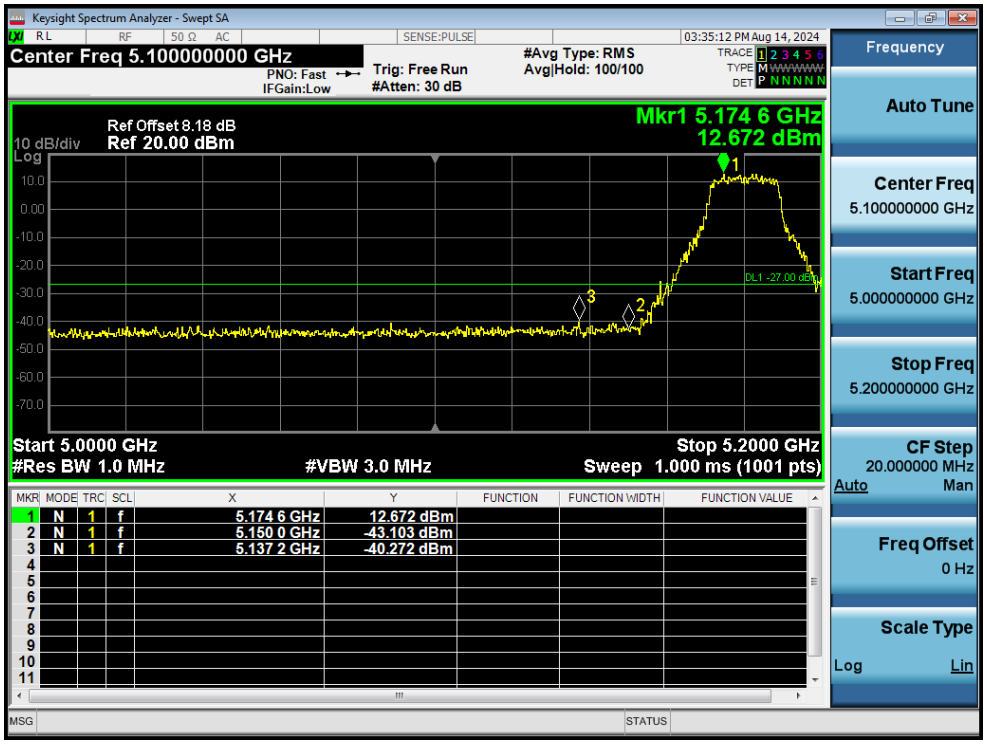
Band Edge NVNT n20 5180MHz Low Ant1



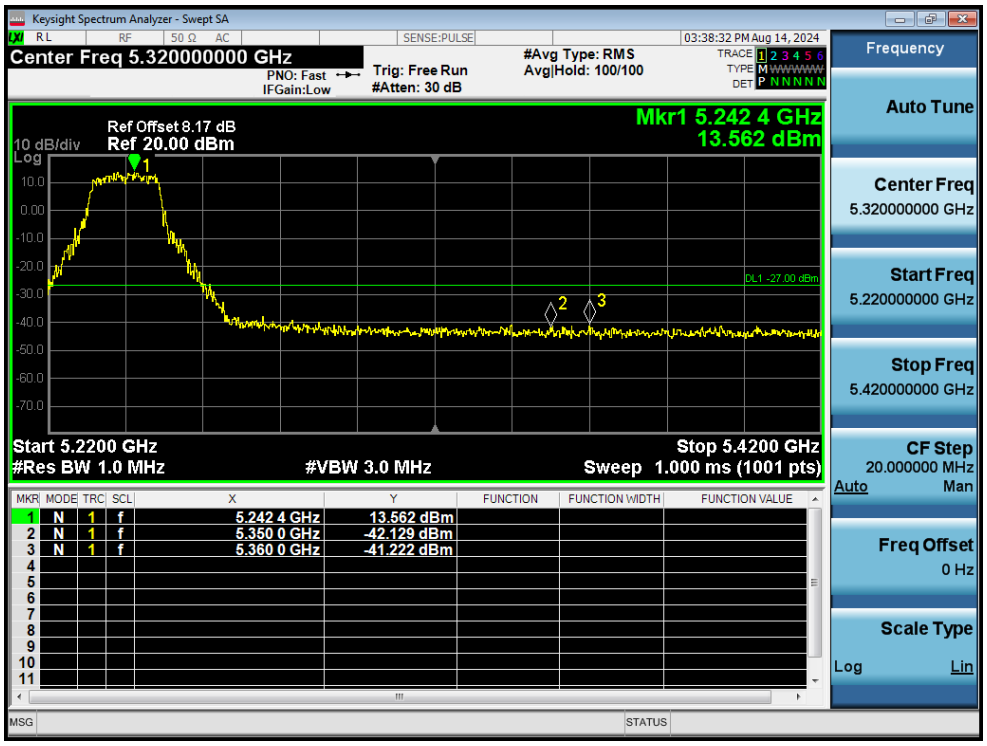
Band Edge NVNT n20 5240MHz High Ant1

Band Edge NVNT n40 5190MHz Low Ant1

Band Edge NVNT n40 5230MHz High Ant1



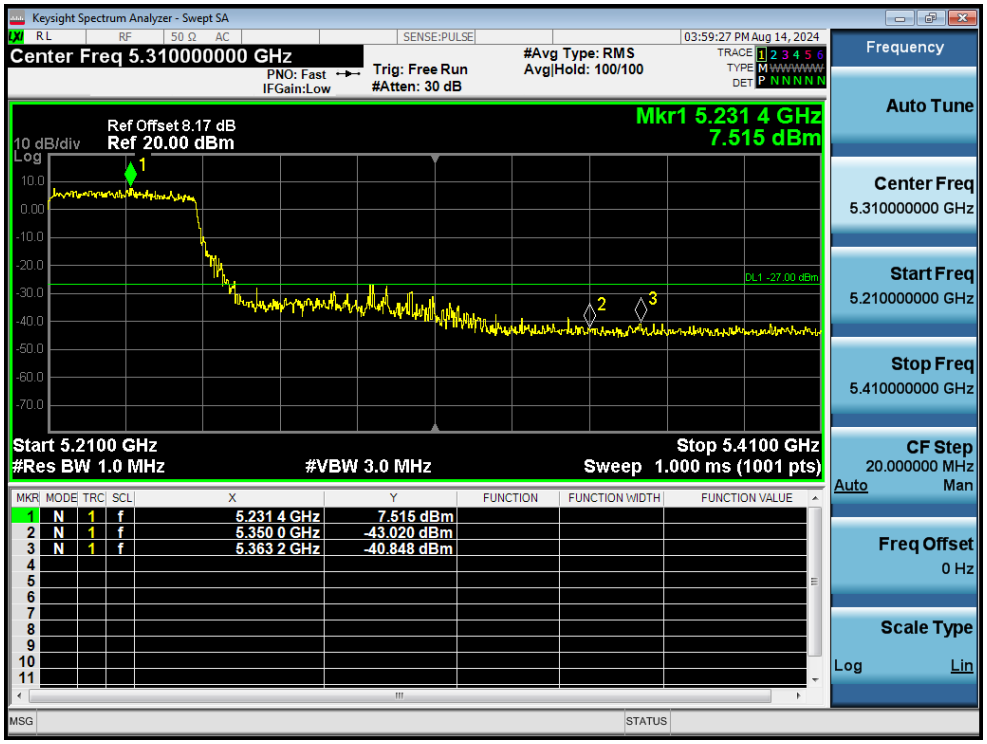
Band Edge NVNT ac20 5180MHz Low Ant1



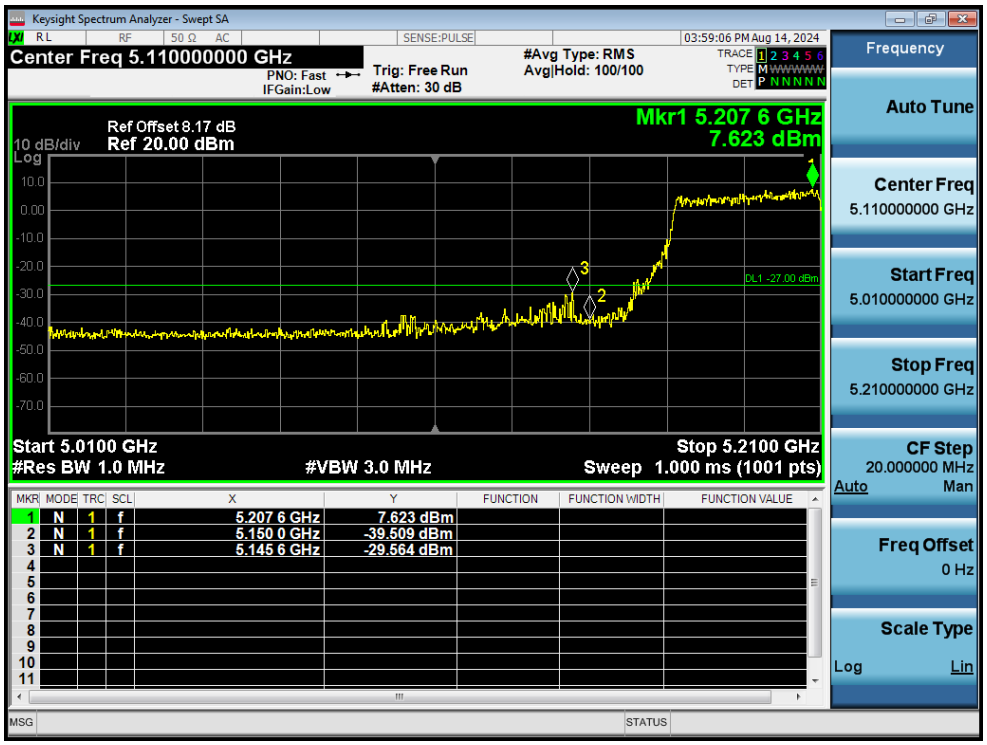
Band Edge NVNT ac20 5240MHz High Ant1

Band Edge NVNT ac40 5190MHz Low Ant1

Band Edge NVNT ac40 5230MHz High Ant1

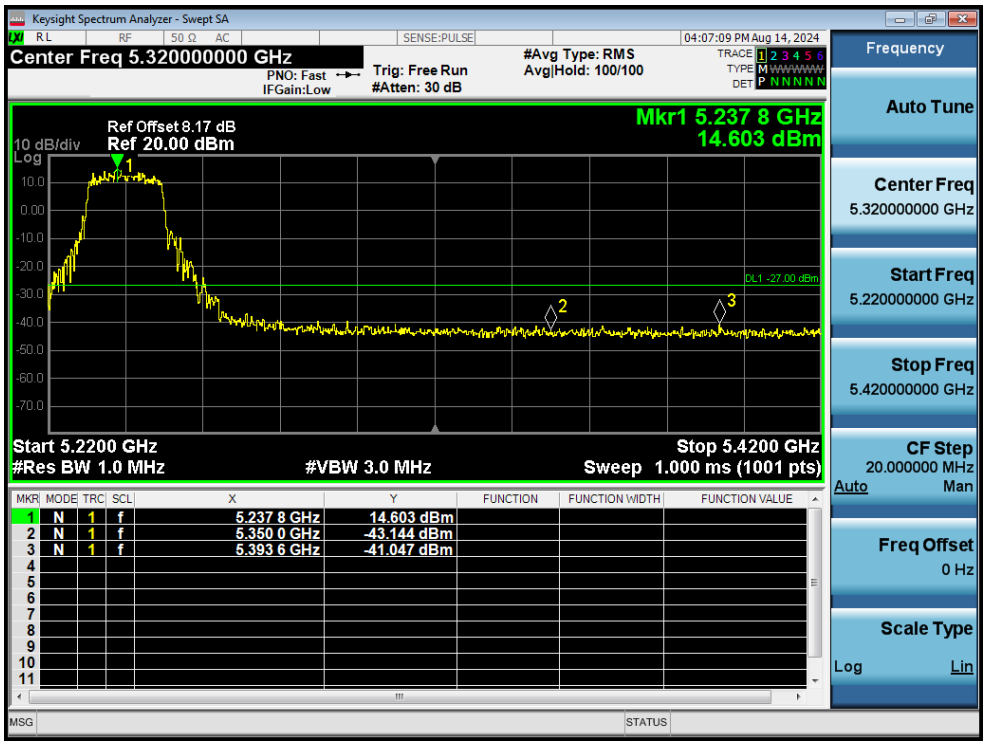


Band Edge NVNT ac80 5210MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant1

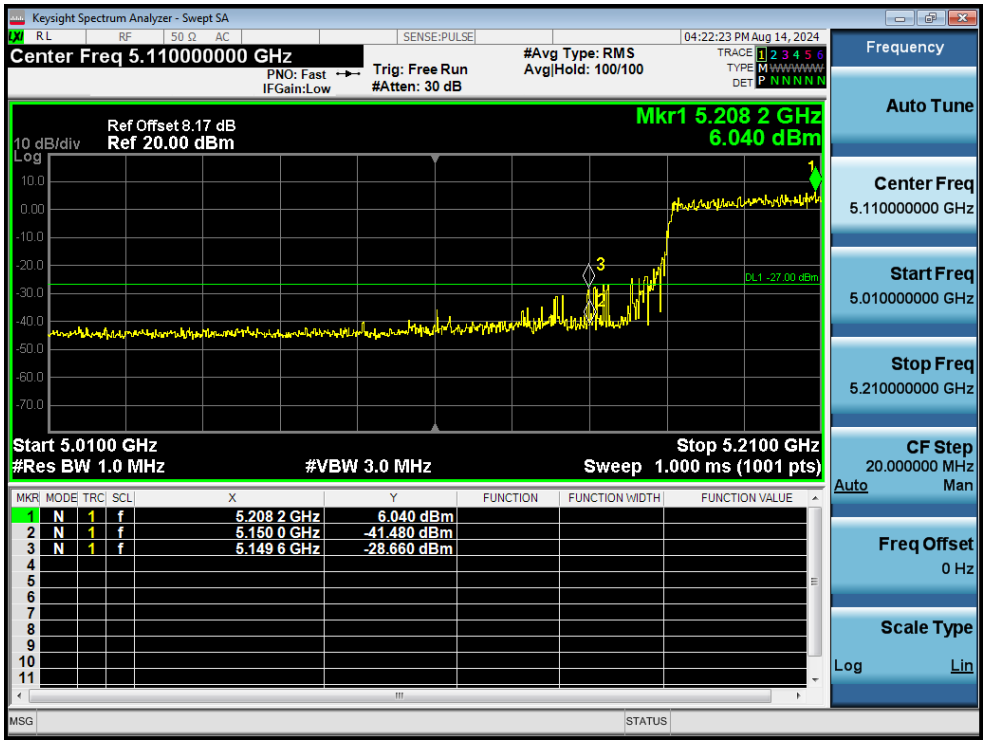
Band Edge NVNT ax20 5180MHz Low Ant1



Band Edge NVNT ax20 5240MHz High Ant1

Band Edge NVNT ax40 5190MHz Low Ant1

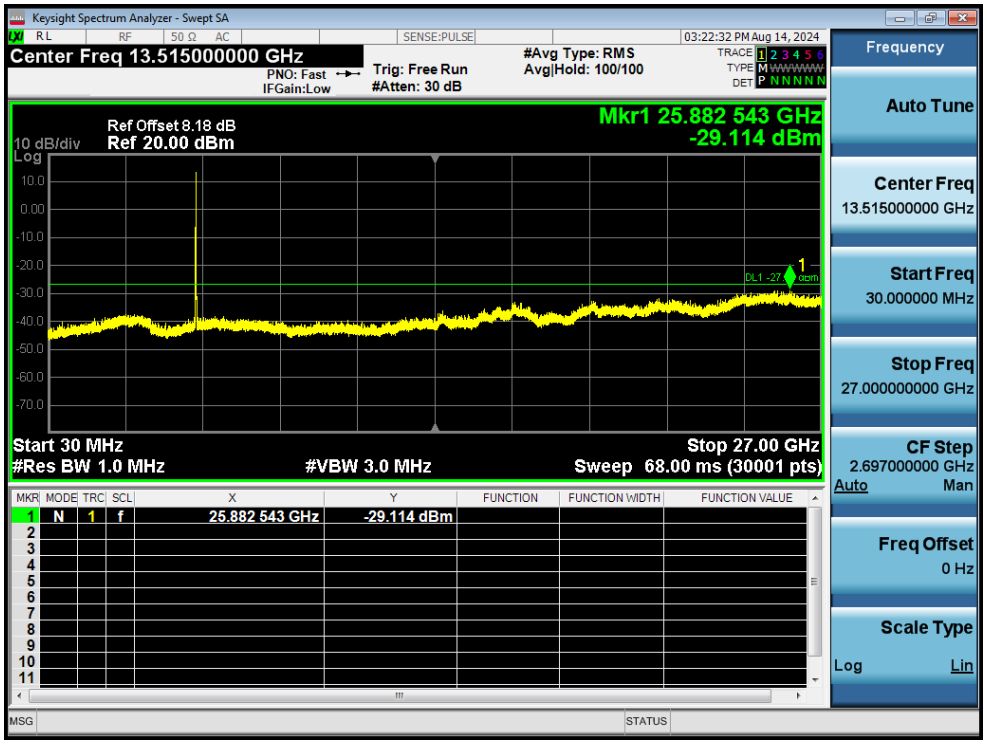
Band Edge NVNT ax40 5230MHz High Ant1



Band Edge NVNT ax80 5210MHz Low Ant1

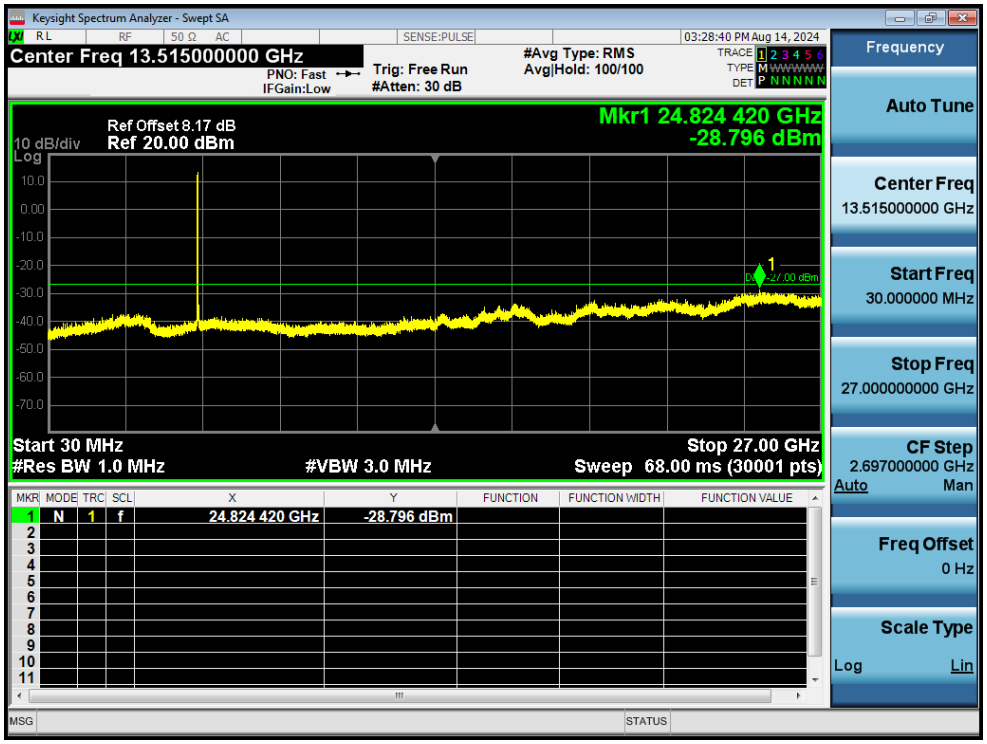
7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-29.11	-27	Pass
NVNT	a	5200	Ant1	-29.01	-27	Pass
NVNT	a	5240	Ant1	-28.79	-27	Pass
NVNT	n20	5180	Ant1	-29.45	-27	Pass
NVNT	n20	5200	Ant1	-28.55	-27	Pass
NVNT	n20	5240	Ant1	-29.12	-27	Pass
NVNT	n40	5190	Ant1	-28.71	-27	Pass
NVNT	n40	5230	Ant1	-29.16	-27	Pass
NVNT	ac20	5180	Ant1	-28.81	-27	Pass
NVNT	ac20	5200	Ant1	-29.12	-27	Pass
NVNT	ac20	5240	Ant1	-29.35	-27	Pass
NVNT	ac40	5190	Ant1	-28.7	-27	Pass
NVNT	ac40	5230	Ant1	-28.64	-27	Pass
NVNT	ac80	5210	Ant1	-28.78	-27	Pass
NVNT	ax20	5180	Ant1	-28.81	-27	Pass
NVNT	ax20	5200	Ant1	-29.1	-27	Pass
NVNT	ax20	5240	Ant1	-28.8	-27	Pass
NVNT	ax40	5190	Ant1	-29.05	-27	Pass
NVNT	ax40	5230	Ant1	-28.6	-27	Pass
NVNT	ax80	5210	Ant1	-29.06	-27	Pass



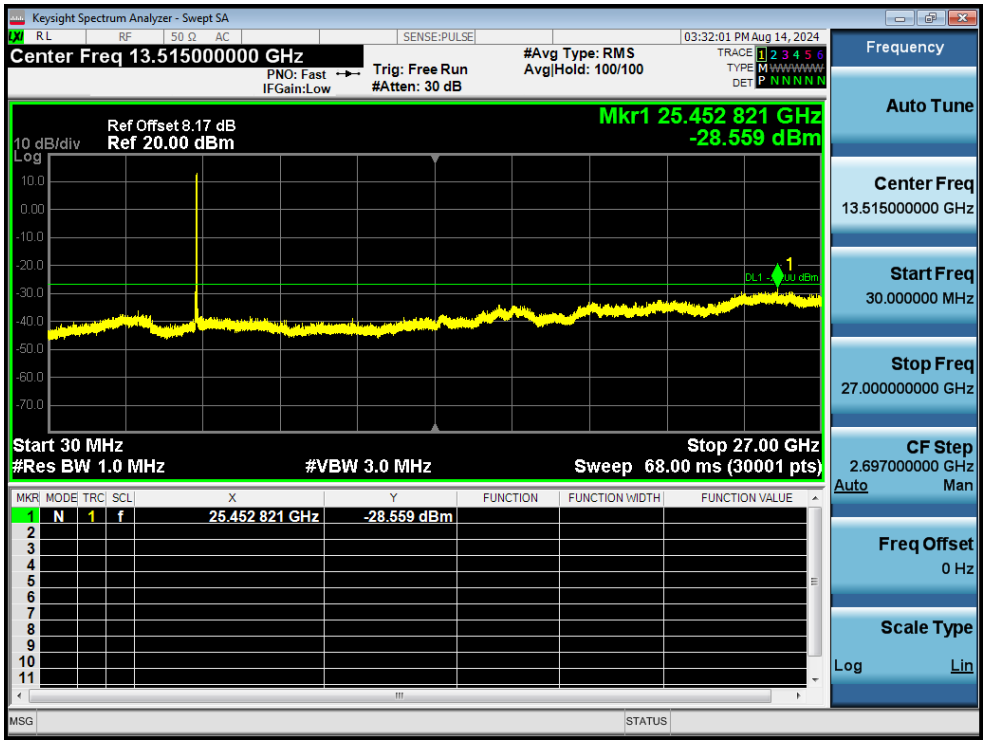
Tx. Spurious NVNT a 5180MHz Ant1 Emission

Tx. Spurious NVNT a 5200MHz Ant1 Emission



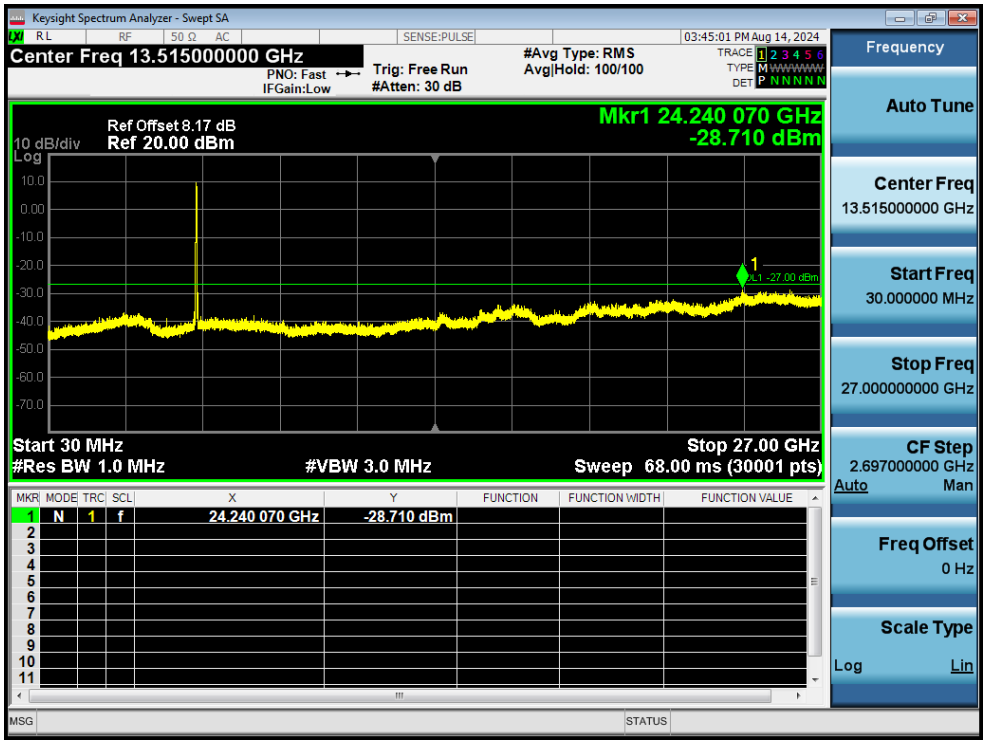
Tx. Spurious NVNT a 5240MHz Ant1 Emission

Tx. Spurious NVNT n20 5180MHz Ant1 Emission



Tx. Spurious NVNT n20 5200MHz Ant1 Emission

Tx. Spurious NVNT n20 5240MHz Ant1 Emission

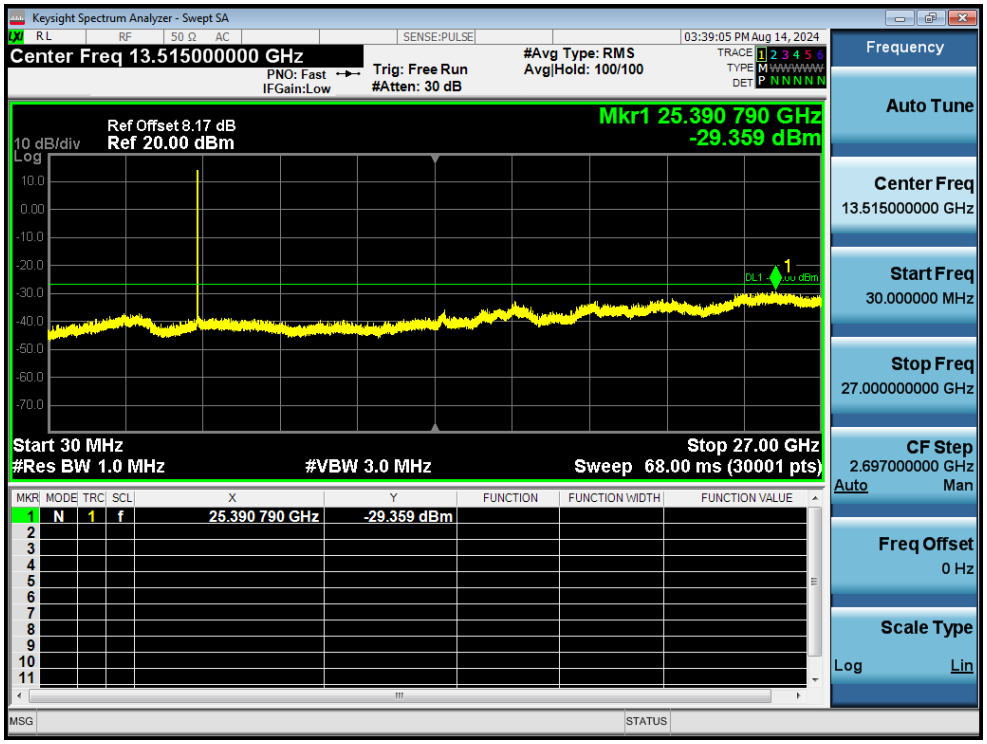


Tx. Spurious NVNT n40 5190MHz Ant1 Emission

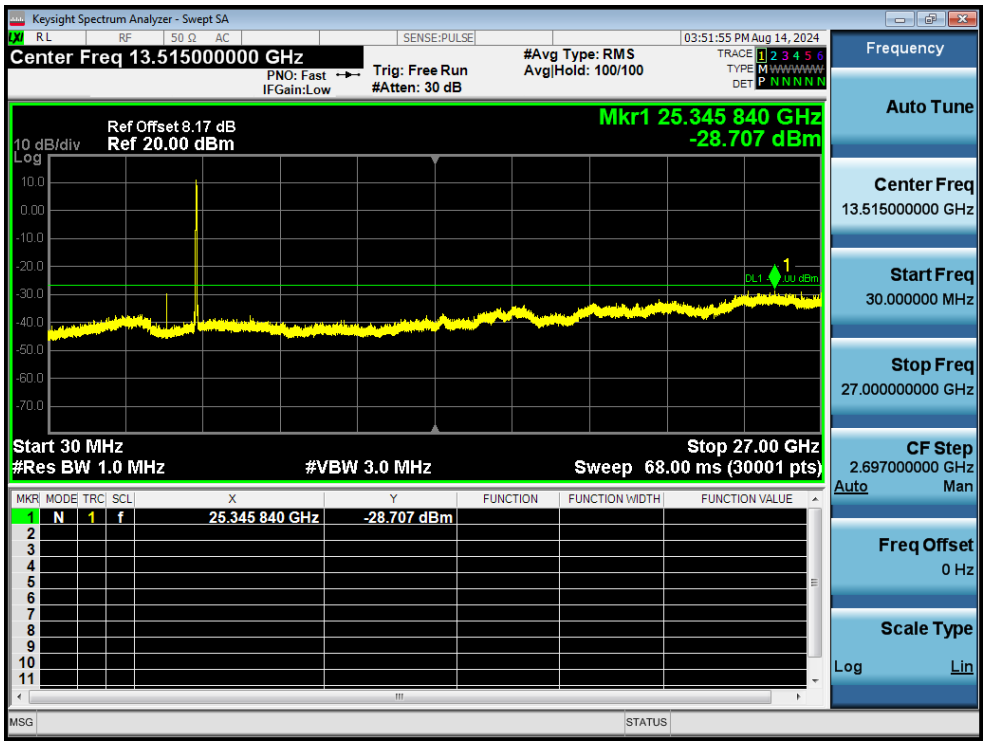
Tx. Spurious NVNT n40 5230MHz Ant1 Emission

Tx. Spurious NVNT ac20 5180MHz Ant1 Emission

Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



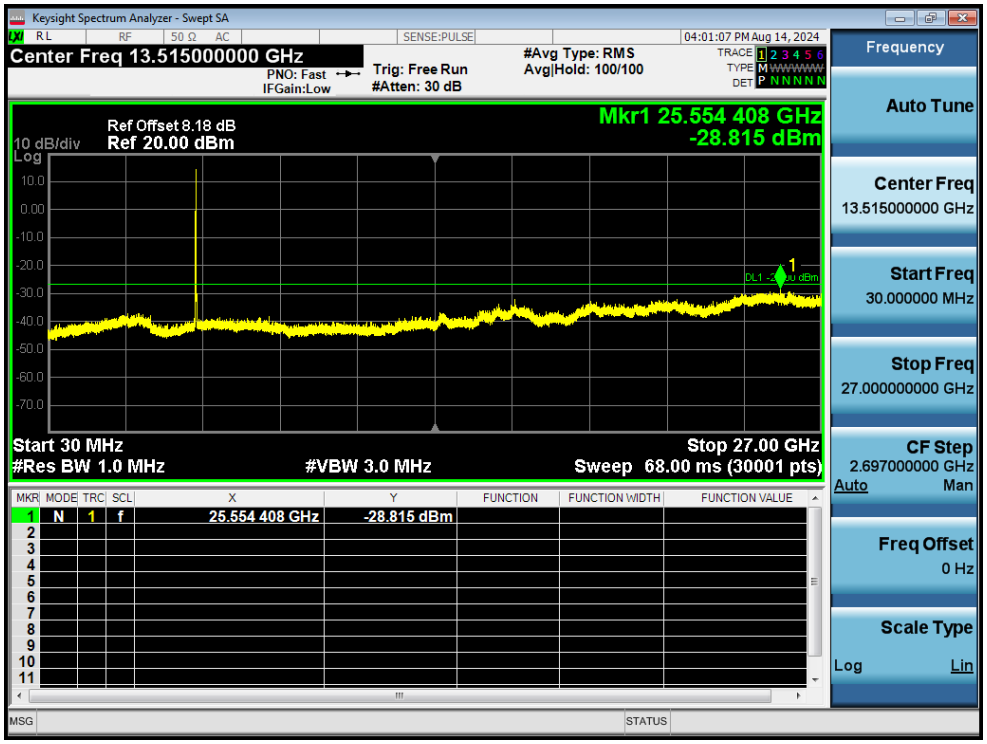
Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



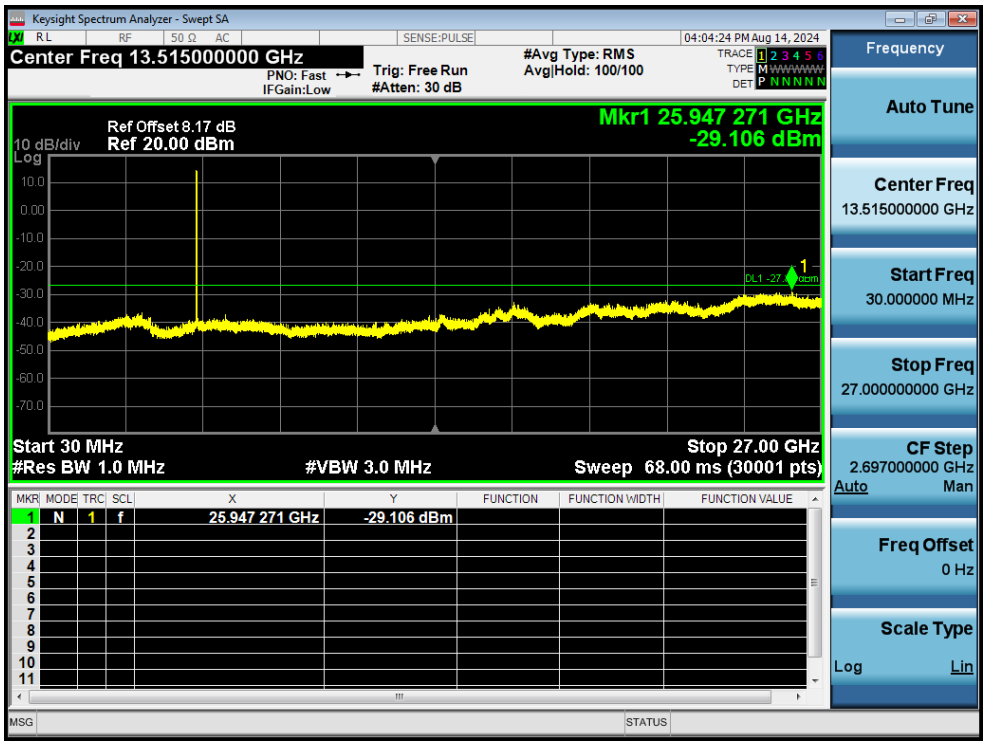
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission

Tx. Spurious NVNT ac40 5230MHz Ant1 Emission

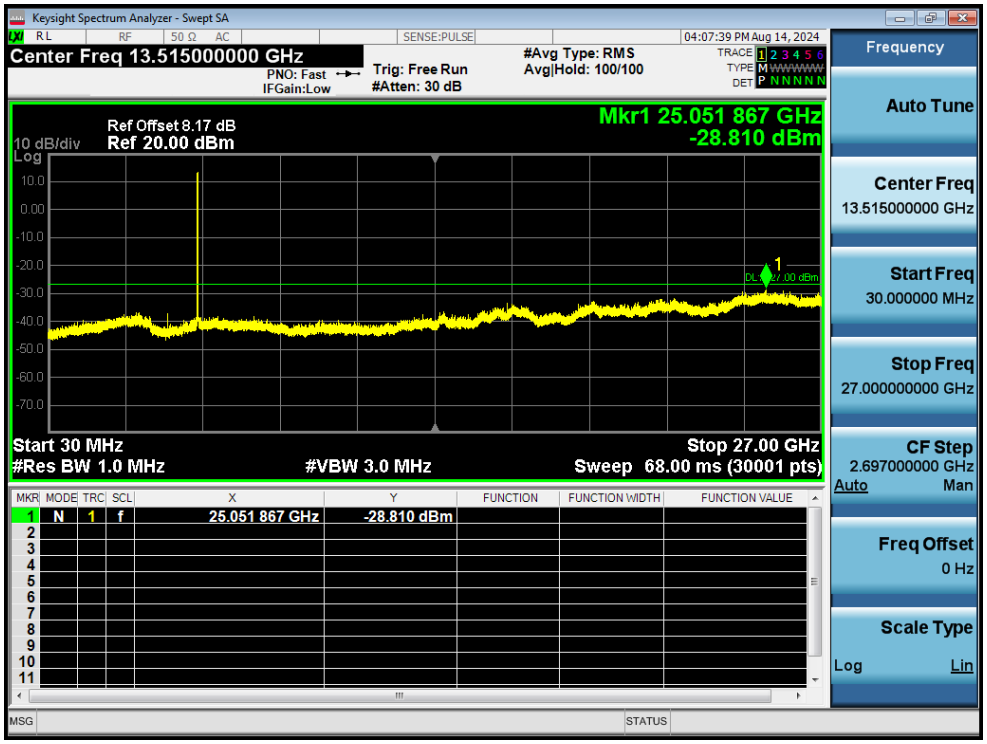
Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



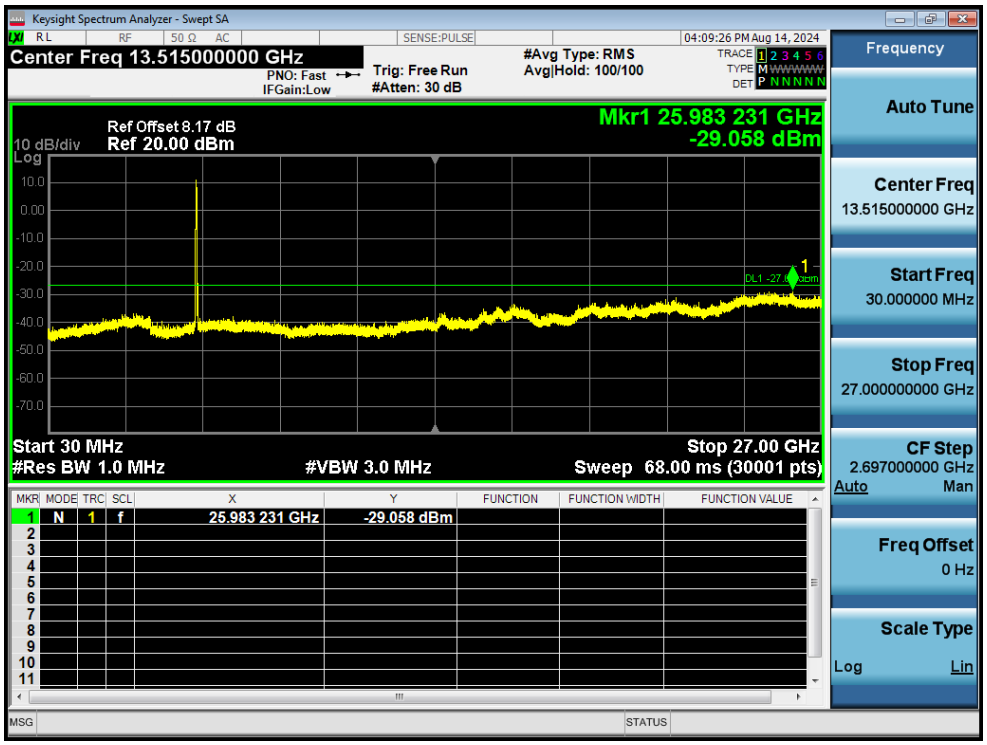
Tx. Spurious NVNT ax20 5180MHz Ant1 Emission



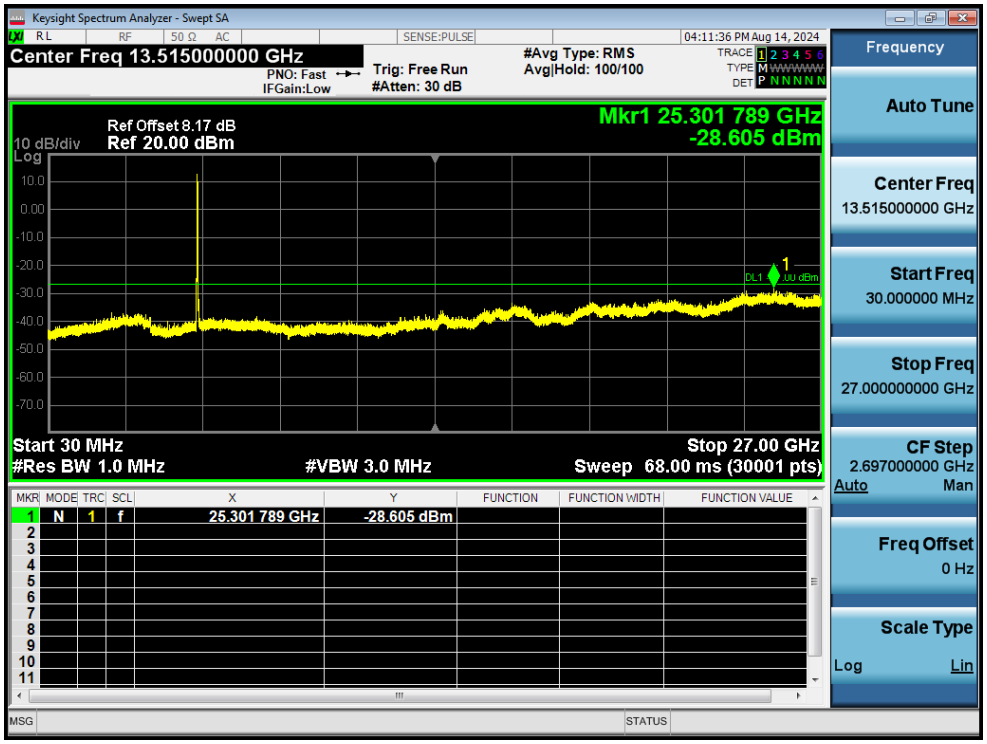
Tx. Spurious NVNT ax20 5200MHz Ant1 Emission



Tx. Spurious NVNT ax20 5240MHz Ant1 Emission



Tx. Spurious NVNT ax40 5190MHz Ant1 Emission



Tx. Spurious NVNT ax40 5230MHz Ant1 Emission

Tx. Spurious NVNT ax80 5210MHz Ant1 Emission